

Vol. XLVII.
LONDON, ONTARIO, MAY 23, 1912.

## Feed Your Children Lots of Wholesome Bread

 Make it with PURITY FLOUR so it will be more nutritiousI $\mathbf{N}$ the words of Woods Hutchinson, one of America's most eminent physicians, "If a child is worth raising at all it is worth feeding upon the best and most nutritious foodand plenty of it.'

And the medical profession is a unit in placing good wholesome bread among the best and most nutritious food for children.
 Many give it first place.

But some bread is more wholesome than others, depending upon the skill of the baker and the grade of flour used.

So if that boy or girl of yours is worth raising, make your bread of PURITY FLOUR.

The bread will be greater in food value, more nutritious, because it will be made of flour consisting entirely of the high-grade portions of the No. 1 Western hard wheat berries. It will contain the high-grade food elements; the high-grade gluten, phosphates and starch of the world's most vigorous wheat.

See that your children have lots of PURITY-FLOUR-BREAD. It's a wellknown fact among physicians that a vast number of children don't eat enough bread. A child should be encouraged to eat an abundance of bread, so as to supply fuel for energy and building material for growing bones, flesh and muscle.
Remindep: On account of the extra strength and extra quality解 ening is needed.

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in some cases free, and in others at 50 cents per acre, excelling in richnes
any other part of Canada, blessing and
waiting warling to bless the strong, willing set
ler, especially the man of some capital stead regulations, special railway rates 파. A. IMEacdomel TORONTO HON. JAS. S. DUFF,
Mintater of Axriculture

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MAY 23,1912
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This "Page Acme" Fence makes a beautiful fence for lawns, cemeteries, semi-public institutions, parks, etc. It is remarkably low in cost. When you consider the long life it has from being painted at the very beginning of its service, before you even set it up, you will see how economical it is to use this "Acme" Fence. We have sold hundreds of miles, especially of the 42 -inch width and you will find this "Page Acme" Fence doing service all over the country.
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The desifg shows how our Reftex
kep water from rumning in at front
Every
Every drop goes down an T


Whenwritingmention this paper



Vol. XIVII.

## EDITORIAL.

Good seeding weather, a fine tilth and ample moisture in the soil,
bingers of a big crop.
While it is generally considered that roots are an expensive crop to grow, with labor so scarce, it is also conceded that they are one of the best
system regulators for the stock, especially the younger animals during the winter months. Even Where silage is abundant, roots are a valuable adjunct to the ration. A few mangels or turnips can be thich tends to Anything which tends general health of young stock cannot profitably be roots will be more than repaid in stock returns.

Hoiv thick to plant corn for ensilage, is an important question which usually confronts the silouser. That many acres are planted too thick the same time, we incline to the opinion that considering both yield and quality, a somewhat thicker seeding is advisable than when the corn is grown for early husking. For the latter purpose, three or four stocks in hills $42 \times 44$ inches apart are enough. For ensilage, we intend this year to plant an average of about five kernels of ear-
tested corn per hill, in hills check-rowed 42 inches

Merging of banks is now the order of the day First thing we know we shall have a tightly organized money trust, serving the interests of Big Business first, while smaller customers kneel before the banking magnates, hats in hand, be seeching the favor of occasional banking accommo dation, which will be granted, or not, according to the exigencies of the Big Business aforesaid. De velopments of this kind will soon make us wonder whether our much-landed system of branch bank is. after all, the best thing for the country, no events, there is great and growing need for a syents, there is great and growing need for a ant a well-informed public will insist upon it with Cuice so strong and so insistent t

Eliminating fruit and vegetable crops, the reatest opportunity open to Canadian farmer oday is the chance of this year on your sum growing alfalfa. Sow it this year on your sum-mer-fallow, instead of wheat. A good catch of 1/falfa on land suitable to it is worth half a dozen
rops of wheat. Seeding alfalfa in July on wellained and thoroughly-cultivated fallow is likely hrove a success over large areas of Southern lario, however it may prove in other latitudes. to not say that summer seeding is preferable pring seeding on clean land, but we strongly minend it for land which requires cleaning. : alfalfa is usually supposed to be a more ting crop than red clover in regard to the
> litions necessary for successiful seeding down,
> are in the case of a correspondent who re-

as in the case of a correspondent who in

I,ONDON, ONTARIO, MAY 23, 1912
Average and Possible Production. fottler and root crops are in the same rut. Tur nips, 402.36 bushels per acre, when 800 to 1,000 bushels are grown on many farms. Fodder corn 9.38 tons per acre, when 15 tons grow on many acres.
These figures should stimulate to greater ef forts. Either large areas are devoted to crops entirely unsuited to the soil and climate, or the methods used in cultivating them are wre pro
Which is the case? Thousands of farms are pro ducing crops far above the average, and thousands nust be far below the average. The managers of these latter have reason to apply a little thought to this matter. If the land does not produce rood crops of what is being grown, surely it ie more suitable to other crops. Grow the crops adapted to the soil and climate, and grow then under conditions of fertity, tith and corion hich ter man towards average or minimum output.

## Tile Dpainage Cost and Benefits

 atstanding facts about til ost and the benefits are bot larger than popularly supposed. The cash out lay for tile is a small proportion of the cost. One and a third to one and a half cents a foot wil enerally buy the tile, except where long main e required, but there is, in addion, the labo hauling the tile, laying out the systo, tile. the trenches, and laying and covering the tile. his, when time is ually will run oard is alf a fore, the labor cos a depending a qual to absoil, the reat deal upon the nate the rate of wages in ogue ; also, the time of year when the work is done.Perhaps a few figures from our own experience may be of interest. Upon taking possession of what is now called Weldwood, we decided to summer-fallow and tite about the alfalfa side of a fall-plowed field, to be seeded land was in the fall. Notwithstan excessively hot drouthy ept well weather surveyed the field and turned in the map staff had surverg for dried the soil out considerably and made the digging hard. We found, moreover, that the farm had a rock-ribbed foundation, the subsoil under the ridges being exceedingly hard and stony. We also found that ditchers were about as plentiful as hen's teeth, and these inexperienced ones then available would only work by the day. What with hard digging and poor diggers, the total labor cost of excavating and laying the first hundred rods was nean a dollar a rod. This was prohibitive, and the men were discharged. Afterwards, we got hold of some skilled ditchers, who finished the job at thiry and cents a rot for digging the ditch, laying and blinding the tre, the Even at this, we had Acparting somewhat from the specifcations on the map, running maines as the contour of the land instead Averaging the whole cost would havinare work some of which was, for reasons explained, much higher than it should have sons exphe counting in every item, even to the fore man's time in laying out the system, stretching mande lines, etc., and figuring time of men and grade hes, etc., teams hauling tile and plowing in dirt, not for-

## Telephones in Canada.

with these drained hollows ready for seeding i
spring from one to three weeks earlier than what was formerly ready first! To realize full returns work and tile the higher land, which now delays the partly-tiled field. While freely granting the general economy of draining worst places first, we believe one should plan his system so as to permit the subsequent tiling of the high lands without much extra labor or expense. To this end, we would strongly counsel the employment of the drainage experts sent out from the Ontario Agricultural College, Guelph, and Macdonald Col lege, of Quebec. First get a system and a map then work to it as closely as conditions permit It will not cost you over ten dollars, or thereabouts, in time and money together, and the map of your farm would be worth having, apart from
drainage purposes altogether; while, in ultimate saving of tile and lahor, and in the greater efficiencr of the system laid according to it, the dred times its cost. Drain, but drain systema-

## The County Farm Expert.

nated and flowered in the Province which germicaught the popular fancy in the United States where a scheme has been projected, with a $\$ 1$. 000,000 gift from a Chicago firm, to put an expert agriculturist in each of one hundred selected counties. In time, it is hoped that the plan
will be so developed as to put a specialist in will be so developed as to put a specialist in
every county of every State in the Union. Just as we have seen, in some Ontario counties, the project contemplates the organization of farmers motion of agriculture in the schools, county com mittees on crop improvement and other matters. commercial, agricultural and educational forces of each county. With fair prospect of becoming law, What is known as the Page-Smith Bill, is als
now going through Congress, which will appro priate funds for the expense, in equal share with each respective State, the agricultural college of
which will select a specially-trained which will select a specially-trained agricultural
expert as adviser and demonstrator in the business of farming. Whether the United States will work out as successfully the details of so gigantic
a scheme, as has been done on a more modest scale

University Agricultural Training. tem more closely to agricultural life has be
$\qquad$
$\qquad$ with greater or less timidity. Now, at the sugthe purpose of training High School teachers in agriculture, it is proposed by Toronto, McMaster
and Queen's Iniversities that a special course in agriculture, it is proposed by Toronto, McMaster all mares that are heing bred. This is where the tirst two years upon the regular I'niversit. after which the successful student wombly bee able to wr:tc. 13. \&. A. aiter his name, and womld 1 .
compet Farmers Lawate contends that it begins al only hophe to thrn out agricultural theorists. so limited as to pive thenen sers scams, whatitica
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Of all forms of modern mechanism, probably
none has done so much to reduce physical exer
tion except of the vocal cords, and expedite none has done so much to reduce physical exer
tion, except of the vocal cords, and expedite busi
ness, as the telephone. Comparatively, it ceons but yesterday since a member of "The Farmer'. Advocate" staff was talking, some 35 years of hore ago, over the first telephone put in opera
tion by Prof. A. G. Bell between some place Brantford and his adjacent country home, bulf now the world is wired thickly with local and long-distance lines. Naturally, a live country
like Canada, which gave practical birth to this new form of human communication, has widleiy developed its use. In this connection, it is interesting to note the appearance of $t$ ics in the Department of Railways, Ottawa the telephone interests of Canada. Owing . 11 obvious difficulties in the collection of informa-
tion for an initial report, it does not profess to he as complete and useful as it will be made in
future years. A good many of the smaller com panies failed to report, and in other cases statements were incomplete. In all, however, returns Were received from 537 organizations, classified as
follows: Government, 33 (Alberta, Saskatchewall and Manitola) ; municipal, 25 ; stock, 308 ; co-
operative, 101 ; partnership. 18 ; and private, 42 . In the Western Provinces the separate
ganizations are gradually being merged unl aanizations are gradually being merged
fovernment control. A large number ioint-stock organizations are classified as "rural.."
and their capitalization is usually small. amil perating expenses light. They have had their development within the past ten years, and have hility reported amounted to $\$ 21,527,374.55$ in stocks, and $\$ 18,516,607,74$ in funded debt: is credited to the Province of Quehec $981,630.37$ large amount includes the Bell Telephone The pross earninge reported amounted to $\$ 10$ $068,220.03$, and the operating expenses to $\$ 6$ account proper deductions for interest on bond liability, taxes, ctc. $\$ 3,089,174.97$. The gross earnings were equal to $\$ 3: 3.25$ per telephone,
$\$ 14.64$ per mile of wire. and the operating ires $\$ 23.05$ per 'phone, or $\$ 10.15$ per mile 1911 was represented by 302,759 telephones. rural. mileage being over five times that of the
$\qquad$ described as automatic by central energy, properly operated by automatic, and 127,765 by magneto. The total number of "mplosees were reported at HORSES.

A small grass field near the stables is a hamdy
place in which to pasture the work horses. It Be careful of the young foal after the hear rains that he doesn't contract a cold from lyimy
on the damp ground. Coolds bring on scours. fin mot fail to return regulariy to the stallion
cale in
brought very forcibly of late years to the atten-
tion of :he Provincial (Ontario) Government, and
$\qquad$
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$\qquad$
$\qquad$

Grass for the Horses
 ANOMMOUS communications will receive no attention. In
every case the ." Full Name and Post-ofmee Address Muat

10. LeTTERS intended for publication should be written



 and not to any individual connected with the pa THE WILLIAM WELD COMPANY (Limited),
$\qquad$
cementing tile ou
following figures
acres cost for thorouphly draining sone sere with outlet through neighbor's property, was $\$ 346.58$, or about $\$ 49.50$ per acre. Cost of tile her rod of drain, 26 cents; total cost of labor course, with the outlet already provided, and ex ions of this farm, by choosing expert men and favorable seasons for work, we hope to reduce the
cost of future work to somewhere around thirtyfive dollars per acre, this being for thorough
drainage, knolts, as well as hollows. dow, as to results. While thirty-five dollare oi a farm, we helieve it is really one of the best set hold of the capital. On the land where w did the most expensive tiling last summer. there
is now as pretiy a growth of alfalia as one could killed. This cannot hee satil of the undrained lant such land will for tar wipe cont the cost of unskilled ditchers workink in midsummer. By the mixture which pockent and chamel the sutsoil of his farm
fintion of surface shath
htr economy in
waterlogged soil with
outlets, and ane arive

THE $\boldsymbol{T A R M E R ' S ~ A D V O C A T E ~}^{\text {ARMER }}$ AND HOME MAGAZINE.
He Leading agricultural journal ING AGRICULTURAI M WELD CEKLY
ohn Weldd, manage

THE FARMER'S ${ }^{\text {ADVOCA }}$ handsomely mustrated with original engravings. and fur
nishes the most practical, reilible and proftrable intorma
tion tor
TERMS OF SUR publication in Canada. Sootland, Newboundland and New Zealand, Eni.50 per year. Statee, $\$ 2.50$ per year ; all other countries 128.; in advanc
advertisina rates.-SIngle insertion, 25 cents

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responsible until all arrearages are paid and their pap
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Mones Order or Registered Letter, which will be at our REMITTANCES Ahould be made direct to us, either by
Mones Order or Registered Leter, which will be at our
risk. When made otherwise we will not be responsible.
spring renovating, accomplishèr without drugs, producing her first foal, than in others). Labor fotus, or a diseased condition which increases its but rather by a liberal use of nature's hest ani-
mal food, pasture grass. Grass acts as a mild in its action to remove all waste material from
the animal's digestive tract and tone up the systhe animal's digestive tract and tone up the sys
tem. Care must be taken in turning horses that are being worked daily to grass, and there is no
better time for this than Sundays. Keep the horse in the stable Saturday night, and turn him out on sunday morning. He is rested, is not overheaten work, and is in a better condition make good use of the new feed. A tired, worn-
out, overheated animal often gives trouble when turned on pasture grass from indigestion. Stable all the work horses at night, after their first day
on grass. As the nights get warmer and the rush on grass. Ascomes less strenuous, and the horse is more accustomed to the grass, he can be left out, but should be housed during cold, damp or wet nights. Of course, when required to work, grain
and a little diry feed are necessary. It is a misank to think that horses can be called upon to
take hard work without grain, even if grass is
do

The Mare at Foaling, and the Care of the Colt.
Foaling time should be prepared for by giving
the mare regular exercise or light work, and a Thiberal supply of food of good quality during a the the last few months. All breeders have noticed that the mare used in this way usually produces
a stronger, smarter foal than the one which has been pampered and kept in idleness, from the mistakente sufficient work for her to perform. As the quitiod of parturition approaches, special attention and care should be given. It is well to work or exercise her gently every day until definite symp-
toms of approaching parturition are noticed. As toms of approaching parturition are noticed. As
the period of gestation is variable in different individuals, and often in the same mare in different sensons, we cannot tell with reasonable certainty when parturition will take place. In round num-
bers, eleven months may be said to be the averbers, eleven mot observation has taught us that this is by no means constant, and that the period varies from ten to thirteen months; hence, it is
wise to be prepared for the event, at any time wise to be prepared for the event at any time
aiter ten months. When the mare is to foal in the field, it is
well to have her alone, as other horses are liable to excite her, and may cause trouble. It is also
wise to select a field without open water wise to select a field without open water or
swampy places. Most mares foal in the stable. swampy places. Most mares ${ }^{\text {in }}$ which a rooms, well-ventilated and well-lighted box stall should be provided. It is unsafe to
allow a mare to foal when tied, as she is unable to give the foal the necessary attention; and even tention, it is very liahle to walk into the stall of another horse, and, while looking for nourishment,
to be iniured or killed. The stall should be thorto be injured or killed. The stall should be thorsprinkled with slacked lime before fresh straw is
spread. The lime is a pood disinfectant, absorbint and deodorizer. It destrovs germs that are
liable to cause trouble. Other means of disinfecsolut an of cartolic acid, etc., are also wise, but
if the lime he freely and daily applied, other pre-
ramtione as laree as pessible, and contain no feed boxes C"



Let Us Have the Light
Let Us Have the Light.
He should not object, and our sleep might be easier

THE FARMER'S ADVOCATE
birth), which exists in dark, almost black, lumps,
of about the consistence of putty, are voided. Retention of this material causes the death of many toals. The lumps are often so large that the foal The administration of purgatives to cause their expulsion in most cases complicates matters, as the trouble exists in the rectum, and medicines given by the mouth have practically no effect up ing the contents of the small intestines and in creasing peristaltic action, without removing the obstruction, complications must arise, and in such likely to occur as the be expelled, diarrhea is Eiven On general principles, it is wise to avoid giving even small doses of laxatives or purgatives to a newly-born foal. In cases where milk has
escaped from the mare for a few days or longer before foaling, the first milk, which is called colos the administration of about a tablespoonful o advisable ; but in most cases the safer way is to remove the meconeum mechanically. The atten dant should cut the nail of the forefinger, oil it and insert it into the rectum, and carefully remove by the injection of 4 to can reach. Follow this aw linseed oil and warm water, well agitated to insure mixture, or 1 part glycerine to 4 parts
water, or even warm water containing a very small percentage of soap. This removal of the meconeum should be repeated every four or five
hours, until the faces that are passed are yellow which indicates that the meconeum has all been expelled and the faces formed from milk are passing. This is a precaution that should be taken
in all cases where spontaneous free passage of the meconeum is not noticed.
If from any cause diarrhea occurs, prompt at tention is necessary in order to save the colt. In y. The common practice of administering castor oil or other laxatives, with the idea of removing from the intestines some irritant which is causing diarrhea, has, in the experience of the writer, gen-
erally been unwise. In such cases, 40 to 60 drops rally been unwise. in such cases, to to 60 drops
of laudanum, given in a little of the dam's milk every four hours, or even three hours if the case be urgent, until diarrhea ceases, will generally be effective. If the patient he very weak and refuse
to nurse, it must be sustained by administering a to nurse, it must be sustained by administering a
few ounces of the dam's milk, to which has been udded a stimulant of say a tablespoonful of
whiskey, about once every hour. if the colt be cretions and excretions he normal, it should helped to its feet and assisted to nurse about oo nurse when held up, there is little chance for milk out of a bottle or with a spoon in some Especially, when the dam is required to work.
ases is sucesful. is well to teach the foal to eat as early as ake a little chopped wats or oatmeal from a take more, and at two or three weeks of age will reatly when the dam is away for several hours
at a time in the field. We think, of course, that dam not wise to allow the for the theld follow the allow it to nurse when the dam comes to the
stable, probathy quite warm, aiter hali a day's
work. and the mare allowed to stand for a few minute
before the foal is allowed to nursi. We should havestation wirlier that it is a wise precaution to with an antimptic. as a 4-per-cent. Solution of beforn the foul the whowed to nurse at first. This
The In case the
 What terions mand
ecenty
oaled
 wecial cow. Cow's milk contalins ant and
membrane that prevents its escape from the blad- lated sugar added to each pint of this mixture der. In all cases it is a wise precaution to see it should always be given at an a
that the meconeum (the contents of the bowels at Fahr. It can be given out of a bottle with


the heart's action is full and bounding
certained before administering a sedativ given when the heart's action is weak, prove fatal. Blood-letting is the most direct dative. Of medicinal sedatives, aconite is the commonly known as "Fleming's Tincture of ite." Of this, the dose for the larger animal about 15 drops, well diluted with water, and re peated every two or three hours until the desired
action is established. It would be wise to leave action is established. It would be wise to lear
the administration of sedatives to those who hav the administration of sedatives to those who have tions.
Vermifuges or vermicides are medicines th

Wuse the forms from stomach cause the expulsion of worms from stomach or
testines. For the larger classes of animals, the testines. For the larger classes of animals, the
following is a favorite prescription for an allult, ordinary-sized patient

Sulphate of copper-3 ounces
Sulphate of iron-3 oun
Mix to make into 24 powders; give a powsier powder by a purgative. Oil of turpentine, commonly called " spirits of
urpentine," is a good vermifuge. It should at urpentine, is a good vermifuge. It should al ten or twelve hours, and is generally mixed wi six to eight times its bulk of raw linseed oil or
sweet milk. For the larger animals, the dose i weet milk. For the larger animals, the dose i
about 2 fluid ounces; sheep and pigs, $\frac{1}{4}$ to $\frac{1}{2}$ tluw ounce ; dogs, 10 to 30 drops. For dogs, better esults are usually obtained by giving areca nul aiter fasting, the dose being 2 grains
$\qquad$
$\qquad$
In cases of the formation of gases in stomach stines, called tympanitis or bloating, the than any other drua given by the mouth. It is exceptionally valuable in cattle and sheep, in which the gases exist in the rumen or paunch, inin horses, where the cases often introduced. Even intestine, it gives good results. It should always be well diluted with raw linseed oil, or, when that cannot be obtained, with sweet milk, melted but er or lard, or even with water, and kept well
shaken. The dose for horses and cattle is 2 to fluid ounces: sheep and pigs, $\frac{1}{4}$ to $\frac{1}{2}$ fluid ounce. The dose may be repeated in two hours if nec sary. (barionate of ammonia, or bicarbonate turpentine cannot be procured. Well when former about 1 ounce is given to the larger animals : of

Kindness Rather Than the Whip.
Having scen an incuiry in "The Farmer's All got the habit of kicking when the trace toucherl her leg. I venture to give my experience with all break her in as a three-year-old by hitching her to a wagon, but when turning the tongue toucher ner leg, and she hicked over it, broke it, the har
ness and, in fact, everything within reach, finish
ing up, finally, in a woven-wire fonce the teamster extricated her, tied her to a fence
post, and proceeded to " lick the tar , out of her
with a big blach-smake whip. After that she "

it should always be given at about 100 degree ubber nipple, or the foal taught to drink out a n open vessel, which is generally considered the the foal should be fed from $\frac{1}{2}$ to 1 pint of this, according to size of foal and its apparent appe intervals between meals gradually increased, until The meals daily are all that will be necessary pats or oatmeal as soon as possible, and in most eat; but if it be noticed that it will eat more than it can digest, without showing distress, of trass is acurable, the milk and grain ration should be supplemented by it, preferably picked by the foal in field or paddock; but if this he no stall. It is probably needless to say that exer

## Veterinary Prescriptions for Farm Use.

 tissue, hence check discharges. When given internalls, they check discharges from the mucous membranes, and are indicated in excessive mucous hischarges from any organ. Some medicines not really astringent exert astringent actions; for in stance, opium arrests mucous secretion, chal neither is astringent, each practically acts as sucl results

## Powdered opiun-2 drams.

Powderen catechu- 4 drams
Mix with a pint of cold water, and administer very foun or above is the dose for an ordinary-sized horse prow ; for smaller animals, the dose should be in as in case of nasal cleet the sulphate of emper given in 2 -dram doses two or three times dat gives good results in the larger animal styptics. Styptics are medicines that check bleedin nal vessel, the administration of medicines his cases of bloody urine or bloody milk, it is as difer doses, mixed with a little cold water, two or thr
times daily, other styptics. Small animals, of course than
ing, or where this contlitions
ing, or where this condition is anticipated. The
tolerably reliable antiseptic. It is given to the
Uails Probably there is no better antiseptie


seneral tone The best results are aptainal
Powdered
Mix amy make into 21 powder: and whe while shto war in the pasture field, I had often

Stimulants prompthe but temporarily increase
are given in cases of exhaustion irmon any cans
when the circulation is weak and nervous ener
ourse depemting upon the percontate of alcolle
matic shat ammonia 1 -ounce dosere
luted with water, given
lact, harlls sate to go near her when she was
tmpt heing made to break her in all winter. In
the spring she was hitched to the plow, and liberal 1:se made of the same whip, with the result that
she hicked on the least provocation. It was, in
hitched up. That spring she was only worked
on pasture all summer, until it was found neces-
sary to worh her fore fall plowing.
inhil.
Goun "p ter whe wetted her, and had always
$\qquad$
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$\qquad$
$\qquad$
$\qquad$
-anal 1 nm a firm believer in the kindness

How Sore Shoulders Have Been Cured.

By way of variation from the usual line of ad
cice telling how to prevent or treat sore shoulder vice telling how to prevent or treat sore shoulders porary the subjoined communication, by J. P.
Aitcheson, of Manitoba, relating how such troubles have actually been cured, and offering some very
common-sense suggestions to teamsters. While not necessarily endorsing everything he says, we commend the article for careful perusal, emphasiz ing at the outset one point he makes, namely ures. We might also state that, by way of lotion for toughening the skin and treating swell ings, the one so often recommended in these coumns is hard to beat. of water. For applying to raw spots before put ting on the collar, there is probably nothing bet ter than the standard oxide-or-zinc ointment, pro curable at any best. The emphasis placed by Mr Aitcheson on snug-fitting collars and hames, and on moderation when putting horses to work in the spring, is not a whit too strong. Horses by the are too large or otherwise ill-fitting, and proper fit of collars and hames very frequently lows
all too common at this time of the year and ulso goes without saying that in many cases ignorance is the cause. The writer has in mind a
case of a friend coming to him about five and a half years ago and asking advice about a mare
with sore shoulders that refused to heal. The remedy advised was a new collar, not so wide, months or so later, and asked about the mare, the reply was, 'Fine, sores healed right away
when I got the new collar.' hat were had horses with just common raw sores that were easily healed when given attention;
others that seemed to break out in pimples on the
shoulders these enlarged, broke in time and shoulders, these enlarged, broke in time, and healed easily; another had a sort of tumor that
bothered more or less all one summer. At last it was lanced, a tumor cut out, and with care and attention, this soon healed, but the horse was
idle at a very valuable time, in the fall. In an idle at a very valuable time, in the fall. In an-
other case oi a little different nature, the lump was blistered, this was afterward lanced and
seton inserted, and after a period of two or three weeks' idleness, the horse put to work. I believe,
in some cases where tumors form, the cause can in some cases where tumors form, the cause can
often be traced to a certain amount of poison of some sort entering through a small abrasion of
the skin. fenerally speaking, sores are caused either by scalding or by the collar pinching the
skin, and sometimes by another horse biting him skin, and sometimes by another horse biting him
on the shoulder, or it may be an ill-fitting collar or improperly-fiting or adjusted hames. sity, A proper-fitting collar is an absolute necesvears ago would fit no collar. I believe the steel on hame. which is sometimes difficult for a man of limited exprerience to do. cured a teanu that was bot-
ered with pimples, which afterwards broke and
then healed, by putting on deer-hair pads. In


To avoid sores, your collar must fit your horse,
and your hames fit your collar; a poor-fitting
collar and a badly-fiting hone mateo horible collar and a badty-fitting hame make a hor-fittingle
combination. Did you ever wear a badly-fitting combination. Did you ever wear a badly-fitting start out to walk ten miles? Just try it once bination, who cannot tell you how he suffers.
Horses 'hit the collar, in so many Horses 'hit the collar' in so many differen hard-and-fast rule to go by in fitting collar an hames. Sometimes the draft should be raised little, sometimes the reverse, if the collar is just Araw your hames in a hole at the top, and dray as tight or tighter, if possible, at the bottom. safe rule for any man to follow when buying hew collar is to take your horse to the harnes shop and have him fitted properly; for remember
collars for horses are, like boots for men and (wo men, made in different widths. Because yout horse takes a twenty-one-inch collar, it does no
necessarily follow than any twenty-one-inch colla necessarily follow than any twenty-one-inch collar
will fit him. Your horse may want a full sweeney or a half sweeney; they are more expensive, bu
think of the horse's comfort, not your purse, for in most cases he is the willing lad that make
your money. Never, under any circumstances buy our money. Never, under any circumstances, bu
collar that is too wide, and when buying, re member that a collar will stretch a good inch in length after it is worn for a time-at least a long-
straw will-I have had no experience with the straw will-I have had no experience with the
short kind. If your collar is too long, get a zinc short kind. If your collar is too long, get a zinc
saie and put in the top. I have seen an inch or more cut off the top, and the collar sewn up, but 1 always considered this a vicious remedy. Never allow the collars to be changed from one horse ty buckle your collar on taking it off, as this tends to retain the collar in its proper shape. Sometimes a good horseman will get a horse that has been through bad hands, and it seems impossible lieve nothing can approach the 'humane collar. They are a crazy-looking affair, but I can assure the most sceptical that they are all right. A case of a friend coming to him about fine and with one as with the common collar. They are adjustable in width and length, therefore one colBest of all, a horse never gets sores wearing on of them. I have yet to hear a man who has used

How to Improve the Horse
Improvement in the average quality of horses come to realize and to appreciate the value of red to demand the services of good, sound, pure will the proved. It is intensified inheritance, resulting the best, using no outcrosses, and always with the same ideal and purpose in mind, that enables the bure-bred to stamp his characters upon hir op
The grade with two, three or four top crosses lacks this intensified inheritance of characters, and his diversified inheritance prectudes this
use as a sire. These are facts, not theories. use as a sire. These are a true state of alfairs, the Circular of the Kansas State Agricultural Col-
ege, from which it is taken, cites the case of a recent farm sale, where colts rising three, uniforin
in quality, ready to to considerable work this In qualty, ready average of $\$ 76$ per head. Colts
season, sold a an
rising two averaged $\$ 46$. The sires of these colts "ere ordinary \&rade stallions whose sean from the same mares, but from a very excellent pure-bred stallion, standing ior than those rising three years good sound pure-bred sire. The service of a of charge. On the other hand, do not breed to a
stallion simply hecause he happens to the regisTrred.
The same pamphlet urges horse-breeders to be ware of stallions hereditarily unsound, for it is to raise scrub horses. and as such are transphysical characteristics, Seek and patronize the stallion in which there is combmed soumdnes,
good individuality, and good brecedinur. IIt these
The good must be combined to insure success. The good
sound, pure-bred stallion is a public benefactor: the scrub stallion is a public nuisance. be careThe following unsoundnesses should be care-
fully avoiled, (1) Hereditary unsoundnesses, initly arder
volving highly-organized structures, such as de-
fects of vision (cataract, amaurosis, periodic ophfects of vision (cataract, amaurosis, periodic oph-
thalnia), roaring, heaves, ridgeling, and stringthalmia), roarine. halt; (2) hereditary unsoundnesses, characterized
by bony plargements-bone spavin, ringbone and
soiter structures-hog spavin, thoroughpin an curb; (4) unsoundnesses not quite so strongl
hereditary-rheumatism, melanotic tumors. crib bing an

## To What Stallion Shall I Breed?

## oo many men, offering as an excuse that the

 plan relative to the consequence suddenly realizing in the midst $A$ heir spring's work, that this or that mare should e bred with the next few days, they search to ind where the nearest stallion is "located, avai themselves of his services, and give the subject hey generally find themselves the proprietors puny colts, become disgusted, and, declaring their dissatisfaction with the breeding business, abandon There are several factors which a man should The type must be carefully considered . There is market outlet for drafters, saddlers, coachers roadsters, and various other sub-classes. The par me a detornining influence in his selection of may Draft horses are work horses, and their value to large extent depends upon their ability to fill this demand. Sadtures, coachers and roadsters roadster and saddler also serve as laborers. As a consequence, more emphasis in these classes is put upon beauty, style, attractive action, school ng and manners. The farm a is so situate these classes may find it more profitable to pro fuce them, but generally it will be found that the production bur hors Often the type of mares which one has deter mines the type of stallion to which he shall breed if one's mares are of drat brcetting and characte lions of the other types, and the reverse is equal rue One may, howere dispose of his mat replacing them by others of the type which he pre ers to brced. cedure. Whatever the situation, a man should never, in the execution of his work, lose sight ofAl. Having settled the matter of type, the question
Generally, the breed does not matter. There are ardent adherents for all the breeds. Each breed has some pretty well tried out in this country, and; provided they are superior individuals of approved market type. the breeder may largely follow his own personal preference in the selection of breed.
It is also absolutely essential, however, that the stallion be of excellent individuality. There have been mediocre stallions that have sired excellent Thours the breed is not essentially important breeding is. The stallion that is used as a sire should tee pure-bred. Horse-breeders have been very much slower than other breeders of recognize the merit and importance of purity be a progressive dairyman, yet who used a scrub or grade bull, does not generally get much recognition outside of The scrub or grade bull has been kiven a long thus far. Before farmers can hope to raise suc they shall have to cease patronizing grade horses iradie stallions frequently are good individuals
atherwise they would not be kept entire ; but, be cause of their impurits of brecting, when coupled ance of inferior hlood, which insures the inferior If there were more pure-hred stallions witnin dustry it would he well to debar all stallions of impure breeting from public service. Because o
their lesser value, their owners can senerally af ford to offer them for service cheaper and at more azainst, pure breds. Some plan whereby they would be kradually eliminated and replaced ty industry. preference for qre me stallions as sires. This is of such a choice is the foundlation of cheaper service. Because a man can save five or ten dor policy. Back of the pure-bred, providing he is sisted upon), is a long and strong line of indi-
viduals of superiority that have passed from viduals of superiority that have passed from
strengeth. endurance. size and type. Back of the
grade one goes but a very few generations until he reaches the slough of the mongrel world; from this source comes the inheritance of the progeny
of the grade stallion. When the size, type, qual of the grade stallion. When the size, type, qual-
ity, endurance, and most of the points of importance are in favor of the son of the pure-bred sire there can be little reason for saving five dollars
on the service fee. It is a frequent opinion that grade stallions are more enduring, that they are mure-ireds. This is sometimes true. Pure-breds pure-breds. This is semetimes true. Thely stabled given insufficient exercise, and otherwise abnormal ly and unreasonably treated, so that their vigor health and fertility is seriously affected.
no fault of the horse or of his breeding. other hand, the scrub stallion is put to work, fre quently has to rough it, gets plenty of exercise fresh air, and is seldom overfat; consequently, he
is full of vigor, and is fertile. Then, too, these is full of vigor, and is fertile. Then, too, these
scruius or grades are tenacious of life; they have that virtue frequently, if no other. The bronchos of the West, the Shetland and Iceland ponies, and
in truth, all those types that have not been fulls in truth, all those types that have not been full which we call vigor. But with the vigor of the scrub goes his deficiencies and his mongrel inheri tance. Most men see their merits, but forget
their accompanying weaknesses. In the choosing of a sire, then, one must stick to his chosen and best-adapted type ; he must ever demand superior individuality, and with
equal determination he must demand purity o hreeding, if the very best results are to be
tained.
PROF. J. A. McLEAN Mass. Agricultural College

## LIVE STOCK.

Provide the pigs which are running in the pad dock with a shelter from the hot summer sun

No animal which is not of high quality should guide of the feeder, the butcher and the consumer

When purchasing new stock of any kind, care
should the taken that no animals not in good health or showing weak constitutions be added to

The male lambs of the grade flock should be cas trated. Wethers sell for higher prices than rams,
feed more readily, and are not so difficult t, handle in the pastures.

Avoid heeping too many pigs in one pen or
paddock. It is a rule with all classes of live stock that large numbers kept together make suc

The "whe shepherd always keeps a young flock To do this, some ewes must be turned of annually.
Unprofitable breeders, and old ewes not raising
lamis can be profitably disposed of during the


Rape as a Pastupe Crop
Edit suite usefulness of many crops which are well large number of farmers, hence many useful crops are not extensively cultivated. Rape may be numbered amongst this class. It was clearly that the farmer cannot afford to depend upon his clover and hay fields alone for pasture. Fields which are intended for haying purposes during the closely in the fall. If pastured pastured the fall, and then no protection left, the stand will be weakened by many plants dying. In some parts of the Old Land it is the practice never to This may be wisdom, or otherwise, but one thing certain, in these districts the hay crop is usually very good. Then comes the necessity of admany good pasture crops is sown
If the commendable practice of using a complete rotation is carried on, rape can be easily so it wiil Re Rape does especially well after sod, tage after sod has been plowed down in midsummer. If no rotation is used, it can be grown anywhere. It is often thought advisable to plow but in many which has not made a strong stand, does not wish to lose one season with any of his fields, and does not know of a suitable crop which cases, grown in such an emergency. In such bease, or vetches, should be grown. spring till late in August. It is, therefore, well suited to sowing as a catch-crop or a atter the hay field has been plowed. If moisture is lacking, the
seed should be sown immediately the ground is sufficiently cultivated so that little or no moisture is lost by evaporation. The seed can be sown either broadcast or in drills. If sown broadcast,
four or five pounds of seed per acre must be used whilst only two or three pounds of seed are used, quired when sown in drills. One advantage that is to be gained by sowing in drills is that the all weeds. be cultivated and hoed, keeping down crop. Many farmers do not wish to summer-fal-
low because they lose one season, but the conrol and eradication of weeds must be obtained by some method. A very good way is to plow
early, eultivate thoroughly, and, as the season advances, sow rape. By this method the benefits advances, sow rape. By this method the benefits When pasturing this crop, care should be taken
prevent animals becoming bloated often takes place when the animals are hungry
and the rape is wet. When cattle are pasturing rape, it is thought advisable to allow them ac
cess to some old pasture. This helos to vent bloating. the smaller farm animals, as sheep or pigs. Under
no circumstances should it be fed dairy cows. If fed to dairy cows, it readily taints the milk, and a tery poor, undesirable butter is then obtained.
13utter from cows which have been fed on rape
can casily be detected by the can easily be detected by the prominent odor and
taste which are always present.

## Where Results Clash.

breeding, in-breeding, line-breeding outcrossinh and cross-breeding, many distinct breeds have b stablished, each with its own peculiar size dermation and qualities. These qualities when two animals of a certain breed are bred ether, the owner has a reasonable assurance the the ofispring is going to conform in a very large legree to the type of its sire and dam. There are surely breeds enough of all the
classes of stock from which to select. how there is a tendency on the part of many stock-owners to resort to violent crosses in breeding, hoping to get a "go between " better
suited to their individual conditions of the breeds used in the conditions than either ally is the result. Here is where a serious clash of results appears. The breeder looks for all the hesirable characteristics of both to be prominent 24 case of the crossing of breeds bred fir such with a separate and distinct-purpose in view, that The undesirable features are far more likely to be prominent in the offspring, and that new qualities,
mositly unsuited for the purposes wished mostly unsuited for the purposes wished, are al-
most sufe to result from the blending of the individual good qualities of each parent. It is a case of the result of years and years of work
establishing distinctive breed characer two breeds coming together in a final clash for supremacy, many of the best ondercurrent of common qualities gaining the upper hand, resulting in a very common or
" scrub ", animal, a hopeless misfit, undoing the able variations cross-breeding, and the tendency is toward retro gression. The greater the contrast in the breeds,
the stronger is the tendency to revert tive types, owing to the war of the best primil ters upon each other.
$\qquad$ pure-bred sires of a distinct breed generation after generation, to the improvement of the stock. The
sire being pure-bred, has his good characters established to such an extent as to be prepotent in a marked degree when crossed with the grade fe-
males. Thus, the tendency is imales. Thus, the tendency is ever toward im-
The only place where cross-breeding can b profitably resorted to is in the making of ne followed. Warfield says that the method should be ing, as a subordinate department of cross-breeding, has been found to yield such excellent results Ces of hettering the character of market cattle

Development Depends on Pastupe

## Breeding," says that, as a rule, the more sparse

 the pastures, the smaller the breed which they tity of iood required to maintain a small animal ; to carry about its less ponderous body in search of food; and third, from the greater ease withwhich, in consequence, it travels over the relative 1y large area to grather the food of each meal. In
conseguence, small breeds can oftentimes maintain themselves in the pink of condition when large
breeds of the same species would go on short supplies. When heavy hreeds are put upon sparse lovel in character tend to make small breeds larcer when qrazed upon them; hence it is usual-
ty. considered more profitable to stock such pas-(
$t$ tires with breeds that are already large. But
while large breeds cannot be maintained on sparse
pastures without supplementary food, it does not
inllow that a small breed will not prove proter iollow that a small breed will not prove profit
athe on rich pastures. Again, pastures inter mediate in character are best adapted to sustain
animals intermediate in size, and this fact should
he duls regarded in choosing breeds to put upon

The charactor of the pastures exercises no
smali measure of intmence on what may be termed
special development of certain parts of the body When the pastures are rugged, there is an increase
of development in the fore parts of the body. The Inuscles of the forearm and certain other parts of
the front quarter being much used in climbing are strung. There is also decrease, more or less,
iti) the devmopment of the hind parts of the same, notwithstamping that the muscles of the thighs
remain large. made of such decrease, since so much depends upThe relations, also, between the relative propurtions of home and tlesh are more or less ald
are thient in lime cannot maintain a sufficiency of

A. temisrate in size and in other useful qualities


THE FARMER'S ADVOCATE
to sow rather a large amount of seed broadcast
in order to keep the growth from becoming to coarse. For this purpose, sow from one-half t
one bushel per acre, the thicker seeding bein one bushel per acre, the thicker seeding being
preferable. Millet likes a damp, rich soil; and when the land is very dry, it is sometimes advis-
able to drill it in, to insure even germination.

Bean Insects and Diseases. The bean is a crop which is growing in favor fully grown. True, it is not considered very im portant in many parts of the country, yet Kent County, Ontario, has an annual acreage of over 26,300 acres, and Elgin County plants over 8,000 acres. There are thousands of acres upon which beans might be grown, especially in South Of the insects attacking the crop, the bea (Syeevil (Bruchus obtectus), pale-striped flea-beetlo The bean weevil is, in the adult form, a small grayish-brown beetle, considerably smaller than the ordinary pea weevil, and oval in shape. The jury is done to a great extent in stored seed, which is sometimes destroyed by the pest. Young plants are also affected. The pods of beans at
tacked by the pest show warty proiections an black specks-a condition which interferes with the
sale of the seed. This pest has been common in sale of the seed. This pest has been common in
some parts of the United States, and has been occasionally seen in this country. The remedy
simple and effective. Whenever the insect found, the beans should be fumigated immediately after they are harvested and threshed. Place
them in a barrel or tight bin, and put in a dish them in a barrel or tight bin, and put in a dish
on the top of the beans, one ounce of carbon bisulphide for every 100 pounds of beans. Close the receptacle tight, and allow to remain for 48 hours. Large bins have been fumigated by use with the carbon bisulphide
The pale-striped flea-beetle sometimes does dan age when the young bean plants are not doing
well, owing to unsatisfactory soil or ditions. This is a very small, striped beetle with light-brown wing-covers. The injury done is
by the upper and lower leaf-covering being eaten away, leaving a shot-hole appearance, often en the autumn destroys many adult beetles and keeping weeds in check destroys many of the la vae as they mature on the roots of the
ing is scarcely practical, but effective.
of this iournal. The poisoned-bran recent issues plats the best remedies. Scatter this among the plants in the evening. Late fall plowing is bene
ficial, as it destroys inany of the laryen Three diseases of beans do much more damage than the three insect pests. Bean antracnose and
bacterial blight are particularly destructive, while rust does is the worst enemy of the bean. It attacks al parts of the plant, heginning with the first leaves porls anl seeds are alfected. Seedlings become the leaves and stems, and rusty, black, suanken
thoots on the pods where it is most serious and fungous benetrates into the pods and attacks the
 pols, hence, if cluat mols arws. shected, clean seef
 "ith berdeanx mixlarge scale is seared pation promber
hrown, dead, panin
pear on the poll
antracnose, and
vinter in the
The straw may
field on which
(0) other field

lant beans

The Injupious Meadow Mice

Meadow mice have appeared in certain locali- ies in such vast numbers that they inflicted serious damage upon many of the products of the hus Britain and on the coontinent. North America thus far has been comparatively free from such extraordinary irruptions of meadow mice, and yet, during the last few years, serious ravages by them ada. They seem to be increasing to a serious extent from year to year. The damages have usually been confined to limited areas and to

special interests, and have only slightly affected special interests, and have only slightly affected
the general welfare. But the habits of meadow mice are everywhere much the same, and a serious putbreak of the pest in this country is not only sossible, but, in view of the continued shortextremely probable.
The number of liviny species is 165 hav ing been recognized, of which about 78 are North American. The several species differ much in
size. In length of borly, some are nearly as small as the common house mouse, while others are nearly as large as the common rat. While the body, the various forms differ much in this par Notwithstanding, meadow mice are much alike spects marked differences in their habits have been observed. Some of them prefer high and dry ground, and others live in low, moist places; some some, like moles, make long burrows under the surface of the sofl, while others construct runways on top of the ground. Most of the species live are almost as aquatic as the closely-allied muskthe nests of meadow mice are composed of con dect bunches or balls of grass-hlates, placed in If the ground is very moist, supported on grass
stems five or six inches above the wet surface. They are so light in structure that, atter a storm are so warm that the amimals pass the yet they season snuglv housed in them under the snow In these whe thairless young are produced and she slips away from the nest, often carrying the romptly when the premises are akin to The breeding season of meadow mice extends over most of the year, except midwinter of the
coldest latitudes. The number of litters produced depends largely upon the character and longth the winter. It is certain. too, that the number season. A few species prontuce hathitually from two to four at a litter, bot other species bring The common meadow mouse is one of the most young, the average litter, are produced at a birth,
and four litters in a spasson and if disease checks the multiplication, the increase
would be appallingly great a single pair and is progeny would in five seasoms ammont the over
$2,000,000$. This calculation is season do not breed unitil the fust yar an as
sumption that is likely to be incorrat. For the
 ow mice survise a "rimer in any localty. it is a menace to arricult mal int en an Investigation of thent cult, became of the find en whind comblton off the
$\qquad$
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apon the resources of the farmer. The mice ws and pastures. The common meadow moart usually the offender in these cases, although the lairle meadow mouse also causes considerable loss in the West. Both of these mice work under the succulent roots of clover and other pla and sometimes destroy entire meadows, which have to be plowed up and resowed. Such damage usually occurs where a thick growth of grass is y-pastured fields are not usually badly injured by ly-pastured helds are not usuaty bady injured hy

The meadow mice are destru ive to market gardens. Strawberry fields are expecially liable the attack, because of the mulu. ised to protect in the garden, hotbed or cold-frame, potatoes in the ground, and many other growing vegetables. In the fall they destroy beets, turnips, carrot parsuips, cabbage, celery, apples and potatoes, depredations may to a great extent be prevente by the careful burning of weeds and other trash nich harbor the pests.
hock by meadow mice is common and in the rops-wheat, are often cut down and eaten. The damage nearly ripe, but fully-matured grain also is eaten. $D$ vholly destroy large nurseries of young apple trees. The animals usually inflict the damage by burrowing under the snow and girdling the tree
just at the surface of the ground. Some species burrow below the ground and the potict gopher, eat the roots of trees, thus completing their destrulion. One of the chief causes of the recent great in tent destruction of the birds, mammals and rep tiles that habitually prey upon them. Among the wild mammals that are known to badgers. raccoons opossums shankes, foxes weasels, and shrews. Among birds that feed on meadow mice are hawks, owls, crows, shrikes ranes, herons and bitterns
Next to insects
item in the food, mice form the most importan most easily obtained, but other mice and, indeed most of the small rodents, are eaten. The important service of snakes in the interest of the but an inherited and deoply-rooted prejudice duces thoughtless people to destroy them wheneve possible, and for no other reason than because The value of
stroying mice is well known and of dogs in de animals learn from experience to prefer the large meadow mice to the species found in houses and
barns. The great ijpection to the utilization barns. The great njjection to the utilization of
cats to check the inoriinate increase of field mice is that, when cats take to roaming the field and rorest they soon learn that song-birds are mor largely to the pursuit, atd such hirn their attention stroying birds, cats much more than offset their value as mouse-catchers.
At one place an experiment was tried by plac ing some wheat poisonerl with strychnine at the donc late in the evening, and on the following morning a considerable number of dead meadow
mice and white-footed mice were found. The poisoning experiment had proved so effective that
the result that within a few days nearly all the tance in connection with these poisoning operawecharll during their progress. Remarkahle as it
 itenly umon the poisoned mice and rabbits without
innur. Tree sparows, juncos and quail were
commen sraped the poisoned baits. In distributing poiwint the destruction of valuable birds. be used to Int the use of strychnine for poisoning field (an of strychnia sulphate is used t Wred in a pint of hot water, and a pint of heav:
and every grain is wet rass is allowed to stand in the mixing
the bait, it may be p
Mea
the ha
drains and find the bait
Chautauqua Coo, N.
Alfalpa vs. Red Clover Buitor "The Farmer's Advocate":
As I have been experimenting with alfalfa few years, 1 will give my experience to others
who are looking into the allalfa question. 1 have had some limited experience with feeding alfalfa as hay to cows, also as green feed for pigs, and
judge it to be one of the cheapest feeds a farne can get hold of, taking into consideration the total cost of producing it.
1 have heard it said, and have read in papers, that alfalfa will grow where red clover will grow. red clover and alfalfa side by side, the result be ing that- the alfalfa was a good stand, with three cuttings,
clover was found on half the ground. in-the spring of 19111 I sowed twelve acres o oats, seeded down with 6 pounds alfalfa, 4 pounds
red clover, and some timothy and alsike, and the red clover, and some timothy and alsike, and the
result is the alfalfa must have all come up, but result is the allafora must have all come up, bul
red clover fails to show its appearance on the greater part of the field; alfalfa is all over. 1
think if $I$ had seeded 15 pounds of alfalifa seed to think if I had seeded 15 pounds of alfalfa sed to
the acre I would have had an exceptionally good the acre I wother thing worthy of mention is that
stand. An stand Another with oats sown as usual. I al
I sowed this seed with
so sowed eleven acres of pure alfalfa with a nurse so sowed eleven acres of pure alfalifa with a nurs
crop of one bushel of barley to the acre
urevious year had heen to hod the crops previous year had been to hoed crops. Got a acres of hard-pan soil, where it is not so good but I know by experience that red clover would not Aralfa is grown experimentally by neighboring armers, with goodrestan, while tiedts of sead mine it alfalfa weren't there. Anyone may in
sinect
my field. spect my field. I'll guarantee he'll agree witl Now, last, but not least, comes the feeding
value. which has been proven by experimental farms and progressive dairymen; it is unequallen by any other crop. In seeding to alfalfa, the
old points should not be overlooked.
Have the old points should not be overlooked. Have the
land rich and dry, and the catch can't miss. Oxford Co., Ont.

The Control of Insect Pests in Canada.
Hic Division of Entomblan of herime Agriculture, Ottawa, has recently issued a bull din by Dr. C. Gordon Hevitt, Dominion EntoCanada." on the controt distory of the war against insect pests in Canada, and of the man trut in wnich insect pests have invaded the countr The manner in which the Dominion and Provil Gial (iovernments are endeavoring, by legislation and other means, to prevent the introduction ansect pests into Canada, and the in of those pests alrendy here, is describel All interesting summary of the various lines of
work undertaken and carried on by the Division of Entomology at Ottawa is given, and the gan
eral public will no doubt be surprised at the many lologists, who are called upon to deal with 3 or man; insects afrecting farm crops, frui Hy man's possessions and infesting houses, th callii of man. All insects. however, are not Wrious, and the work of the Entomologist in nes bees and beekeepmit thich may be of asssis${ }^{6}$ in obtaining control of insect pests. ${ }^{4}$ opies of this publication, M. mas, mas be orWheat Shortage in France.
$\qquad$ Why are causing considerable apprehension int

 ants, but it may prolong the period in which what way be ins Thed free on conditions that an eunaty
 temporarily relieve the mand and why when ers hav
 ing Tank


One of the ex
ouses offered
ob some patrons for
not putting the cans nt milk in the cooling tank is that, are used, it is diffi cult to raise the cans from the tank
to the milkstand to the hauler's way methoderal simpl methods have been
devised for thi work, such as track and pulley
a long pole over post, with attach-
ments to hold the The accompany ng
shows a very simpl hoist or crane for the the cans fron neat, durable, and The crane gear consmall gear wheel with shafts through holders which are right. A wood roller Saskatchewan dairy authorities have decided to is placed on the large shaft on which the rope follow suit. After a season's educational cam- winds. A the gat at any point. The wood work eries will this form on practically the may be made the farm, and securing the same basis as prevalls in Alherta. two gear wheels, the parts are easily assembled Manitoba as yet has seen no organized elloral With such an outfit, sweet, cool milk may creameries have adopted a scale of prices for weet cream and for sour cream under two classes. The general move on the part of the patron, how Only if he is given what he considers absolutely
satisfactory treatment; if the is not sutisfied, he sends his product to another creamery. The con
sequence is that the uverage creameryman hes sequence is that
tates about lueing very severe in his grading, lest
he should create a feeling of ill-will.
$\qquad$ Wheat grading. The man who does not take care of his cream and furnish it to the manufacturer price than the man with foed wheat is entitled s that cream. a perishable commodity, is shipped (oo far, and it detwrimerates to an appreciable exent after it leaves than. This is where Alberta arn in a position thr whace the dhiry industry on a cor in Momitolia for some time. The grading sys iif croat, supplial we patrons, and also in the prombetion of a qualits on butter that catches erade protuct - -The Farmer's Advocatio \& Home when it lust concede that Whla ahin the when hom in realla, and nsuaty much
$\qquad$
$\qquad$ and

## POULTRY.

Bad Poultry Practices. There are several bad practices on the part of he inajo the malit. A. G. Gilbert. I , Itry Manager at the Central Axperimental Fars:, Ottawa. Among these are: First.- Non-appreciation of what a strictly new-
laid egr means. raid egg means.
Second--Holding back eggs until he has a sufficient number to make it worth while taking them Third- Keeping his fowls in ill-constructed and inssanitary poultry houses. Very frequently both hens and houses are lice-infested or suffer from
disease A point hrought out at a committee meeting of last year in connection with this third point
was the great demand by the hospitals, particuharly by the tuberculosis hospitals, for strictly cases of incipient tuberculosis. The virtue in such eggs is for the reason that they are strictly new-laid by well and cleanly fed hens. Hence they are highly nutritious. Now, if lice are a of the hen, it is not likerly that she will lay as nutritious an egg as one laid by a hen entirely farmers to have ill-constructed houses, and to al larmers to have ill-constructer houses, houses and hens to become infested with lice. This fact has such an impertant bearing n
while bringing it to the attention of the committee. I emphasize this, because the evidence given
before this committee goes to the farmers in all parts of the country, and they will undoubtedly henefit by paying attention to this point.
Fourth.-Another drawback is the lack preciation of variety in the composition of the preciation on variety ink of variety leads to eggeating, eggs being laid with soft shells or no shells at all, and to father eating, which are two
discouraging vices. Overcrowding of the most discouraging vices. Overcrowding of the
poultry houses is also an incentive to the vices named.
Fifth.-Another bad practice is having latehatched chickens. As a result, the pullets,
stead of laying in October or early November, stead of laying in oct Jor or so until late in January or February, when the season of best prices is over.
There is a fact in connection with the select trade that I should like the farmers to more
fully appreciate than they do, and it is, that the producer who wins a reputation for supplying the best eggs and the best quality of pultry is not likely to lack customers. On the other hand,
producer who sells stale or doubtful eggs is not produce who sells stale or doubtful egg a customer once, he is not likely to do person again. He is not in a position to say me." Sixth.-Another point in which the average farmer is frequently remiss is neglect in caring for his chickens at an early age, particularly during the first five or six weeks of their to have plump chickens to go into the fattening pen, the chickens must be well cared for rom the time of hatching.

## Poultry Pointers


more suceseful. Part the feathers of each bird and dust the powder well into the skin, that the
vermin may come in contact : under the tail and wings, and around the fluff of the leg. When this will see that they appreciate the change; they will see that they appreciate the change; they
will sing, they will scratch and strut about, ap parently with pride, talking in hen language about the change in affairs. This should make faucies his or her flock. Nore eggs, health and contentment will be the result. If the fowl ar kept in yards, the yards must be also cleaned.
good way is to plow or spade the earth up in each yard, to a depth of say seven or eight inches then sprinkle lime over the upturned surface. Re whitewash the fences; it will give a bright cheery appearance, and serve as a disinfectant, a
well. Don't forget to provide shade for the floc well. Don't forget to provide shade for the necs sary to their health. (MRS.) I.. heatheringion.

## GARDEN 敦 ORCHARD

Topical Fpuit Notes.
Many PEACH buds winter-Kililed
$\qquad$ missed cut out any blight that may have bee should during the winter pruning. The orchar
 once, as the bacteria will be rapidly spreadine throughout the cambium during the growing sea son from every point of inoculation. Cut well below the blighted part-at least a foot-and disinfect the wound, and the tools after every cut, using 1 part corrosive sublimate to 1,000 parts of water. A cheap sponge, nailed to a two-foot stick, such as a shortened broom-handle, make an excellent swab to apply this disinfectant. I is a drastic poison, and should be handled with . Young strawberry plantations should have been Flanted to get advantage of May showers. It is to be hoped that planters will have more success than last spring, which proved so disastrous to cumstances care should be used. First, young, strong, vigorous plants, preferably from plantations that have not fruited, should be chosen.
Then, the land should be in a state of clean and mellow tilth, using, preferably, a warm, quick
soil that is retentive of moisture. Be careful, in planting, not to bury the crown of the plant no
to expose the roots. Then follow throughout the first season with clean and shallow cultivation
removing all blossoms, and placing thê runners s as to form a matted row. Our main cropper in
the Niagara district is the Willianns, with Nichols and Bederwood grown for early varieties, Dunlap, ety. The Williams is far from being a periect qualities make it the favorite at present. The damage caused by the severe cold of las
winter is now becoming evident. I thimh it
safe to say that over hali the peach huds hav been frozen, Some orchards in more expused toprotected locations, will have a full crop. Vari-
eties seem to have been affected without anv rule tender surcuved in some instancom, what, what the and


ganization is just another corperation to take little nore profit off the producer or add a
more cost to the consumer. One wonders i more cost to the consumer. One wonders if tha
auction will limit its sales to its own member or the legitimate jobbers of the city, and excl
the retailers and consumers. As their pr the retailers and consumers. As their profits
jobbers depend upon their sales to retailers, it hardly likely that they will allow a retailer purchase under equal advantages whose benefit will it regulate them?

There are three factors, at least, directly erned with the crop itself, which have made to wards those instances which we know of successiul co-operative fruit-selling. One is that a fruit of
one kind or class is generally dealt with, such as oranges, apples or grapes, in contrast to a medley of fruits, as found in general fruit-growing. other is that such kind of fruit is more or less hood keeper-shat shipp and storage. And the third is that the fruit is limited to certain regions because of limiting factors of soil, climate, markets, a considerable degree. This latter factor may savor very much of monopoly, but just as the
basis of co-operative fruit-selling is the local association, so the successful culmination is the cenral sales agency which controls distribution,
prices, advertising, standardization, etc. prices, advertising, standardization, etc., and
which, to be markedly successful, should control a greater part of the district's output. For what
is the difference between several local co-operative
$D$ associations competing in the same market, withdoing the same thing? A "glut" or cut in es possible in one case as the other.

The past two weeks have witnessed a wonder ful changing picture of color in the blossoming of lea tender fruits and the gradual unfolding of is the promise of spring to the fruit-grower. Most of us have enjoved this profusion of decorative effiect, which is the outward show of spring, but
how many have realized what a remendous evv lution of energy was necessary in each tree bush to push foward the bud, open the blossom and expand the leaf? This energy-development is marvellous extent, when we contemplate the work done. We talk much of producer and consumer, but here we have the true producers in the plant kingdom. They use the raw-food material-the duce the organized food for the animal kingdom. The farmer and fruit-grower becomes the middle man when he distributes his products to his city brother-products produced through energy de-
veloped in the plants

THE FARM BULLETIN Limiting Varieties.
Having noticed several articles in " The Farmr's Advocate in regard to potatoes, and the variety is grown in to farmers when only one difference in prices between the potatoes in the Cario, I thought that and those grown in On of the C'amden Agricultural Society might be of Mrescien, lat

Sppaying.
Last night I had only three hours' sleep, and pected and wholly unseasonable snowstorm, the weather turned cold, and the signs all pointed to mometer registered thirty-four degrees above zer -just two degrees above the freezing point. began to worry at once. I have seldom been more interested in anything than I am in that orfor a profitable crop. of fruit-producing, and I am profoundly interested in the work because of the light it throws on
man's partnership with nature. Mr. Clement has man's partnership with nature. Mr. Clement has
undertaken his share of the task in such a hearty fashion that I do not want to have anything in terrupt us until the demonstration has been com
pleted. So, as I said, when frost threatened began to worry. It seemed as if the whole ex temperature. Every few minutes I went and con sulted the thermometer, and it was slowly but surely edging closer to the danger-point. No knowing what to do, I decided that I must d噱 fectly willing to do anything, however foolish, $t$ mat would give me guidance, I remembered having read somewhere that the vine-growers in France
when threatened by frost, build fires in their vine yards. On mentioning this, someone remembered that one hard summer, in pioneer days, one of by lighting all the brush heaps and stumps in his fields, and that year he was the only man in the district who had corn. Someone else remembered having heard that out west they sometimes sav lay a blanket of smoke over the fields. Of course I hadn't seen anything in the bulletins or farm papers about that sort of thing, but I didn't hesitate. T was perfecty wirig to any chance protect the buds from frost. It didn't matter to me if I lit a torch that would cause laughter from Niagara to Lambton. I am getting used to be ing laughed at, and wrote when a fellow professor lost his pet dog,

$$
\begin{aligned}
& \text { " Vot did I told hiin? I dunno! } \\
& \text { I neffer said a vort ! } \\
& \text { For ven von's leetle dog vos dead, }
\end{aligned}
$$

A little more laughing wouldn't hurt me any,
so I hunted up a bundle of rags and the coal-oil can and started for the orchard. Up to that time to the rush of work, we hadn't been able to clear away the brush that had been pruned from the
trees but last night I was clad it was still there. trees, but last night I was glad it was still the
It was in neat piles, anyway, and that made handier to get at. As there was not a breath of handier to get at. As there was not a breath
air stirring, I selected a spot in the midde of the
orchard, where I would not be in danger orchard, where I would not be in danger of
scorching any of the trees, started my fire of rags and oil, and began to pile the green brush on it.
In a few minutes I had a bonfire that would have been big enough to celebrate a victory of the
people over the Big Interests. The night was so (itl that the flame and smoke went straight up and carried it to my bonfire. After throwing it On the fire, I had an excellent illustration of what
Milton meant by the phrase: Redounding smoke and " Cast forth flame
In a few minutes there was a most satisfying hlanket of smoke hanging over the trees and roll-
ing through their branches. Of course, I knew hat there was no frost as yet, but I had demonotue, I could make all the smoke that was neces-
ars. By this time it was almost twelve oclock,
Bre I set the alarm for three a, m., and turned in ". sunrise that a frost strikes hardest, and ck the alarm went off with a wholly unneces-
jangle, and after I had explained to the
I sed and protesting family what the rumpus
all about, I took a peep) at the thermometer. mercury stood exactly at the freerine pooth-
few minutes I had four bonfires, half smoth with wet straw, throwing up clouds of
By the time the flawn hegan to appear
he east, the thermometer had shaded below

glorious fog. If those buds could be saved, I
was going to save them. I kept up the good
work until six o'clock when the sun's heat began work until six o'clock, when the sun's heat began
to be fell. Then I had breakiast and waited for Mr. Clement, like a little curly-headed boy who had done all his home-work. I forgot to mention spraying of the trees

When Mr. Clement finally came, I couldn't wait o get his horses unhitched until I had told him just roared and laughed! Now I don't think laughing at the rest of us. It is their business to do fussy things and let us laugh at them. Still, he wasn't so very bad about it. He soon let me see that what amused him was my en-
thusiasm about the work. He assured me that the situation might have been one where what 1 had done would have been exactly the right thing
$t$ this stage, however, there is little danger of the blossoms, being destroyed by frost. It is usually a frost that comes after the fruit is set that caulses trouble, and, if two weeks from now
there should be a cold snap, I would be doing exactly the right thing in making a blanket $o$ smoke for the trees. It was very kind of him to spare my feelings in this way, but still I wish his eyes didn't twinkle every time the matter was referred to during the day. Although I am getting pretty thoroughly seasoned, I still have feel-

At last I am beginning to understand the
theory of spraying.
Of course. It had read all theory of spraying. Of course, I had read all planations, and, though everything seemed reasonable, the real purpose of the work did not rightly get across to me until to-day. One has to go
through the work to fully understand its significance. I find that among many people the idea prevails that the three different sprayings are given is as to do the work thoroughly, and that missing one application doesn't matter much. I now see that this attitude is entirely wrong. Each spray ing is done for a perfectly distinct purpose. The first spraying is meant to kill the oyster-shel vitality of the trees. Its purpose is to act as a tonic that will enahle the tree to begin the sea-son-strong and heaithy. The spraying we did
to-day kills the leaf-curl worms and bud-worms, to-day kills the leaf-curl worms and bud-worms,
so that the blossoms will have a chance to de velop and be properly fertilized. It is to-day's spraying that makes it possible for the fruit to
set properly. Mr. Clement showed me the larve set properly. Mr. Clement showed me the larve at work on the leaves and checked at once. They could easily destroy a large proportion of the blossoms, so that there spraying will probably do more than anything else spraying will probantiful crop of apples. The buds were merely showing pink, and as yet had not
been injured by their enemies. As the blossoms been injured by their enemies. As the blossoms
in the orchard are abundant, there should be plenty of fruit, and the next spraying, which will be given in about ten days, when the blossoms are falling off, will kill the codling moths and
give us fruit that will. not be wormy. I know cive us fruit that will not be wormy. "The Farmer's Advocate," but the point I want the make is that, although ind had rease of the different sprayings did not get hold of me until I had gone through the task of actually doing the work. I wpuld have been just as if I felt too much rushed; but now I know that
thev are all equally important, if one is to have a they are all equally important
wooll crop of perfect apples.

I don't, care even if my bonfires were not
needed, and if I did lose a few hours' sleep, I needed, and if I did lose a few hours' sleep, I
have done a whole lot of more foolish things than that, and got away with them by simply looking
solemn. Moreover, I have more than once lost a solemn. Moreover, I have more than once tost a with a sick friend, either. Any time during the
early summer, if you waken up before daylight and early summer, if you waken up
sce a big light in the sky down in this direction, you needn't imagine that somebody s bultangs bonfires in my orchardi, and I don't care a bit To did grin a litfle at the time. INe are going to make a success I had my reward for last
manhy possible, and
night's exploit in another way. I had a chance hear the wonderful concert of the birds that rreets the dawn, long before even the most indus-
rious of us humans is stirring. But I am not and
toing to say much about that just now. I am
It will serve as a do deal with anything so poetic.

Bills Passed to Beneflit Agpiculculture in Nova Scotia.

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The more important Acts passed by the Legis
``` The more imporotia aiming at the the Legisment of agriculture during the session of 1912,
were as follows. " An Act to encourage settlement of farm lands in Nova Scotia,"" " an Act for the encourAct to assist the purchase of power ditching machines," "an Act to further facilitate the incor-
poration of farm, fruit, produce and warehouse associations," ". an Act to authorize the expenditure of Dominion aid for agriculture," and "an Act respecting the construction, of permanent materials, of s, The Act to encourage settlement on farm ands empowers the Government to borrow a sum money not exceeding \(\$ 200,000\), to be used for with which to purchase farm lands. According to the Act, the Government may enter into an agree ment with a loan company for the tollowing pur o advance to a farmer on a first mortgage farm lands and buildings thereon, on terms approved by the Governor-in-Council, an amount up 0 at least 50 per cent. or the vas of such land ance to such persons an additional amount, no exceeding, however, the difference between 50 pe cent. and 80 per cent. of such appraised value.
Residents of the Province, as well as settiers, Residents of the Province, as well as of the provisions of this Act, but the intention of the Act is largely to encourage the immigration ot
settlers into the Province. Many of the best setsettlers into the Province. Many of the best set farmers in the old Country, and have been in the habit of paying rent from year to year. These men often have working capith only that amount of money at their command, it is difficult for them to secure as good properties as they should in the Province, more especially as, under cossitions at present these men to raise any appreciable amount of money on a farm which they may propose to purchase. But under the conditions of this Act their encourage settlement, such the inspectors of a loan company, may borrow 80 per cent. of the total value of the property. This provides such men with the opportunity on commence life in the stances and ought to lead to a much larger settlement of Nova Scotia farm lands.
The Act to encourage horse-breeding deals with he enrollment of stallions. Briefly, it requires
 use any stallon and pedigree of such stallion have been
scription anded, and a certificate of such enrollment issued
enrolle enrolled, and a certificate of such enrollment issued
hy the Department of Agriculture. Stallions are to y the Department of Agriculture. Stallons are (a) pure-bred, (b) grade, (c) cross-bred. The first two are perfectly clear, but under form (c) are
enrolled all those stallions sired by grade stallions urolled all those stallions sired by grade stallions or whose sires and dams are pure-bred,
of the same breeding. In other words, the term cross-bred, as used, includes mongrels. It is required that each bill and poster issued by the a copy of the stallion's certificate, so that the public at large may, at sight, know whether a certain stallion is pure-bred or grade or cross bred. In a word, stallion-owners are required to
label their stallions. This Act, it is understood is a preliminary measure, intended to pave the way for more thoroughgoing legislation which
will ultimately make the pure-bred sire king in will ultimately make the pure-bred sire king in
Nova Scotia. For the time being, all stallions may receive certificates, but it is manifest that the Act will arouse public sentiment to a greate comes in force in January, 1913. ing machines authorizes the Government to expen a sum not exceeding \(\$ 1,000\) annually for the pur pose of assisting any persons, corporichate a power ditch ing machine, to be used for the improvement lands for agricultural purposes. Two years ag the Government of Nova such excellent satis faction that a number of farmers have become in terested in bringing more machines into the Prov pecial These machnes are expenove, Sotia it difficult to make them as profitable to their owners as they would be in a country where the farms are larger and the lands more, very timely. A ready, one company, known as the Pictou County receive assistance under this Act. The Act to further facilitate the incorporation did get up a
tions was passed for the purpose of enabling
those co－operative farmers＇fruit，produce and varehouse associations，some of which were incor－ pany＇s Act，＂but the majority of which were in corporated under a special Act of Legislature， passed in 1908 to facilitate the incorporation of farmers＇＂co－operative societies，to form themselves
into a＂Central Company＂for the purposes of buying，selling，warehousing，etc．，fruit and other farm produce．There are now some． 25 co－opera－ tive fruit－growers companies in Nova scotia，each been found，however，very advantageous to ganize one large central association，including any of these smaller companies who might wish to
oin，and to do business under this central com－ pany．A fairly extensive beginning was made路 operation，many advantages were gained in regard ant measure intended for the encouragement of agriculture，was passed during the season of
1912 than this bill，which was passed to facilitate The act to authorize the expenditure of Domin on aid to agriculture was passed in order to em－ power the Province to receive this money from the Jominion Government under a special agreement， so that it shall not form part of the consolidated Scotia this year will be \(\$ 34,288\) ，of which \(\$ 3,000\) is to be spent in assisting agricultural societies， and the balance in erecting a building at the Nove cothe Agricurat
ulverts etc on the public culverts，etc．，on the public highways，is
of great interest to farmers．According to this Act，the Government is empowered to borrow a sum not exceeding \(\$ 500,000\) to be spent upon the rossways and smaller bridges，along the high ways．of Nova Scotia．In previous years the Gov－ ernment has constructed all larger bridges in the rovince，and，as a result，Nova Scotia is well
equipped with substantial bridges over all the arger streams．Under the Act passed in 1912， it is proposed to carry this work down to the
smaller bridges，crossways，etc．，and this appears ork as is done put of funds provided by this special appropriation will be of a permanent char－ acter，and will provide for permanent drainage of provisions that may be made either by foture ments or municipalities or private citizens for the mprovenuent of the roads of the Province These are the more important Acts passed in mproving the condition of the farmer in the Province of Nova Scotia．It is evident，from the nature of these，that the Government of Nova
Scotia is alive to the interests of agriculture in the Province，and that，as a result，continued

States Broadening Demonstration Work

Separtment of Agriculture，the work of the Burea of Animal Industry in the South is to be carried to the farmer through the efforts of the State，dis－
trict and county demonstration agents of the Bureau of Plant Industry．The valuable work of s proving of considerable importance in connec－ ion with the farm demonstration work．The agents in the farm demonstration work，on the
other hand，are in a position to do a great deal A plan has therefore been effected which pro－ vides for co－operation between the forces of the plant Industry in placing before the sureau the South the important facts connected with tick
radication．The arrangement further provides eradication．The arrangement further provides especalm：What whas to do with hog－raising．
 reatly ．．．．．．．．．．．．．of whe sout to do they
have a

Animal Indust
he demonstrati－
ng poultry club
解
apected of the south prat
Whe Werartment is arranging，

Backwapd Season in P．E．Island． Up to the second week of May，very little had been done at planting．The weather was stil tion．The mosass had hard tion．The grass had hardly started，and even
sheep were still on their winter feed．Clover on the new meadows has kept the ground well，where it was not pastured off last fall．Keeping the
stock off newly－seeded meadows seems to be the stock off newly－seeded meadows seems to be the safely．In every case we have noticed where the clover is winter－killed，it was for the want of a covering of last fall＇s growth，which would have
held the snow and prevented heaving of the sur held the snow and prevented heaving of the sur－
face from alternate freezing and thawing．It is a false economy，still largely practiced，this pastur－ ing of newly－seeded meadows．A week or so in seeding does not make much difference here，as we
seldom have heat enough to produce growth till the latter part of May，and our observation is that more mistakes are made in stirring the ground while too wet than by waiting longer till
it is in proper condition．More attention than it is in proper condition．More attention than good seed for all their crops．The teaching along these lines that has resulted from the＂Seed De－ partment＂＂and our local seed shows has had this acre on very many farms has been materially in creased，as well as the average price of the pro duce from being of a better quality．
Prices here for farm products are perhaps the highest ever obtained．．A very considerable quan－
tity of seed oats has been shipped out，at price of from 60 to 70 cents per bushel．Ordi－ nary feed oats are worth about 55 cents．Pota－
toes are now going foward in quantity at 60 cents a bushel．Beef，pork，butter and eggs are at the highest point ever reached here．Horses are in bright．The one drawback is the scarcity of farm laborers．The lure of the big West has takere so
many of our young men away，but，with better many of our young men away，but，with better
agricultural methods and better transportation in sight，we hope to see a change that will keep more of them at home in future
At the last session of our Legislature our road
system was remodelled．A roadmaster has been system was remodelled．A roadmaster has been
appointed for each school district，who collect and lays out the road tax，and whose duty will be to see that the roads are kept in as good con－ dition as possible at all times．We look for bet－ tural educational policy is also promised as a re sult of an additional fund from the Dominion for that purpose．Fox farming has already got to be a
very large and important industry here，and very many companies have become incorporated recently to still further extend the breeding of foxes and other fur－bearing animals．It is reported that disappointing ；in some ranches there has been no increase．The sheep industry is on the in crease here again，and a tax on dogs amounting
to \(\$ 1.00\) on males and \(\$ 3.00\) on females，has been enacted．This，it is hoped，will tend to lessen the
number of useless curs kept in the country．

Where Potatoes and Eggis are Plentiful．
Potatoes are plentiful in Antigonishe，one
farmer sold over sixty bushels to one merchant good－looking potatoes，at that；larce，and re－ rorted dry；mostly Carmans；other farmers are
shipping their potatoes to Cape Breton，mainly to It is expected that some fine poultry will
It shown at the local exhibition next fall．Some of
the local poultry fanciers have been importing settings of eggs from the states and Ontario．One
poultryman has imported so far four or five set－ poultryman has imported so far four or five set
tings of White Orpingtons－new around here others，the Leghorns and Plymouth Rocks．The only fault that is found is the packing；the eggs
are generally packed in cardboard boxes，and，as are consequence，a few are broken in transit．The
Morgan ege basket is also used by some of the Ontario poultry shippers，but some of the eggs in
these were broken，likely due to careless handling． A clerk（erocery）lately，while taking in eggs，
weighed diferent lots a dozen in cach，and found
Ieghorn egrs as heary as any，weighing thirty lounces per dozen．Eiges are still 20 cents per
dozen，and plentiful．M．M． Th．－nited States Department of Agriculture one have a certificate from a com－ hew Weatul for six months that no con－ －antw the preceding year．All horses
fected with dourine（maladie du coit），or any other contagious disease affecting horses or an mals of their kind．These latter horses are al

\section*{New Holstein Fpiesian Secretary} The Live－stock Branch of the Dominion Depar nd wry Agicient servant in the person of W Clemons，who has left Government service to back to the land，keeping in touch with practical agriculture through his modernly－equipped 85 －acre
farm，while taking charge of the office of the stein－Friesian Association of Canada，which has ong outgrown present accommodations，and wil now be removed to the town of St．George．Many prominent breeders have urged him to return
this work，of which he had charge from 1894 1900．Of late years it has been performed by his sister，Miss Clemons，though the name of theil
father， G W Clems ords as Secretary of the Association．
During the past seven years，Mr．Clemons，Jr in his work of examining to the pedigrees issue by the National Records Office，has inspected and approved for the Minister nearly a quarter million certificates of some forty different breeds cidentally，all kinds of English，Scotch，French Belgian and American certificates of registry，an has acquired a familiarity with the work of regis－
tration in all countries that has seldom or never growing Record of Merit，Record of Performance literary and other work of the Holstein－Friesian Association offiers a wide field for useful service and he hopes to be able to accomplish something society is to be congratulated upon having its records in such good hands，as well as upon the prospect of securing quarters suitable to the in－
creasing work of this public－business organization．

Toronto－to－London Crop Outlook As far as might be judged at this early date in
the growing season，the field－crop outlook along the line of the Grand Trunk between Toronto and Condon，via Hamilton，is for the most part favor area does possibly one exception．The fall－wheal are decidedly patchy．Here and there a good one is to be seen，but these are the＂exception．For not as strong as might be desired，but these and the pastures have time to pick up，and prospect． are foretofore Pastures though oder tha vigorous start，and in many years the spring grains，such as barley and oats，have not started growing so evenly and so well．In so far as
moisture supply is concerned，probably not in ten years has the saturation of soil been so thorough and evenly distributed．There seems to be large acreage of spring grains sown，and also be ing prepared for corn and roots．Judging by re－
ports from seedsmen and from growers，there will probably be an increased area of potatoes planted because of the high prices，but it would be just as well not to overdo the crop．Stock did not
appear last week to be out on the pastures yery numerously，indicating that the counsels given in heeded，which will tell favorably on the＂grass later on．Dandelions are nearly everywhere dis puting with grass for possession of the soil，and
cover scores of large fields like a cloth of gold The better－orchard propaganda is gaining
ground，but very slowly，as a rule．The really ground，but very slowly，as a rule．The really
properly－cared－for apple plantations heighten by way of contrast the ill－condition of the majority succeeded by an orchard reform all along the multiply Between Hamilton and Toronto evidences multiply of intensive farming and activity in large stock or general farms are now split up into
smaller lots，and are supporting in comfort large numbers of people． and A．P．Westervelt of the Provi．W．Hodget ment of Agriculture，make their homes on a 4 acre plantation devoted to the production of
high－grade fruits and vegetables．D．T．Elderkin rise，which has proved highly satisfactory．The returns are chiefly from apples，strawberries and pears，und various crops of fancy vegetables such
as early potatoes，onions，sweet corn，etc．The rain service to Toronto is excellent，which makes andence there entirely feasable，as well as pleas－ parate home for foreman and help has solved atisfactorily the latter problem．There has thus

\section*{}

paper reports of serious damage to fruit buds by
the frosts a couple of nights some ten days ago but these do not seem to have been justified. Last week there wastmore fear because of the cool and
constant rains on the blossoms, washing out constant rains on the ing the bees and other in-
the pollen and preventing to the
sects from doing their necessary work.

Royal Commission on Education Recent newspaper reports from Ottawa, to th effect that the report of the Royal Commission of would be out in June were entirely premature and reat Britain and Europe was concluded som rome but in the compilation and preparation of the mass of material gathered for publication, reat deal remains to be done, and additional ses be held to work out the all-important conclusions \(o\) be drawn, and recommendations to be made to the Ottawa Government. In a general way it may be concluded that the latter will be favorable dominating fundamental industry of Canada will necessarily and largely share, though no specific indication has yet been given as to what the findWhes of the Commisioners will be. The report, be a guide as to the further federal aid to the Prove the problo the conditions solving the problem whe nical education and industrial training rural and rban, are steadily and clearly taking shape in the public mind and the report will crystallize them. Provincial authorities will naturally shape their educational policies to the requirements of he people, and Federal authorities being willing pacity, and to supplement what is now being done with substantial aid, the procedure will assuredly be found to further the highest and best develop-
The chairman, Dr. Jas. W. Robertson, has recently returned to Ottawa to give his close attention to the supervision of the report. While in
the West, he delivered a long-promised address beore a large gathering of appreciative university people in Winnipeg, on "The Cultural Value of
Vocational Training." Returning, he visited Wisconsin, where he looked over the remarkable camversity City of that State, and also made a survey of the educational. processe

GOSSIP
Our readers are always int
farm implements and appliances. other column in this issue, will be found
the advertisement of the Hilborn Com pany, Ayr, Ont. The Improved Oxford Gang Plow advertised, is said to be a
leader. Two-furrowed plows help solve the lures a full line plows, barrows 0 Nyestigating infectious aborDr. F. Torrance, D. V.S., of Winnipeg,
Man., bas been appointed by the Domin. Man, has been appointed by the Domin
ion Government to spend some time in England studying at first hand what ha
been found out about infectious abortion
Dr Dr. Torrance has already gone forward
on his mission, and will prepare a report
which will undoubtedly be of great as Which will
sistance t
country.



QUESTIONS AND ANSWERS ENFORCING PAYMENT OF DEBT A writes to B stating that she is in
trouble over making up some money by
a certain date, and asking B to lend her a certain date, and asking B to lend her
a few dollars, promising to return it in
about two weeks. It has run along into about two weeks. It has run along into
months, and as \(\mathrm{B}_{\mathrm{B}}\) has written her a threatening letter, are there any grounds upon which B can take steps to m
her pay the amount she owes him? Ans.-He ans.-He can sue her for it. Then,
and after having obtained judgment, he he
could have her examined as a judgment

CURING PORK
advise me what is a good way
spring-killed pork, to keep through the summer? Also fall - killed Ans.-There are many good methods of curing pork. See article, "Home-curing
of Meat," on page 1935, of "The Farm1911. Also article on page 527, of the Bacon and Ham." These explain several good methods.
is dry salting. In this method it is cus
in tomary to thoroughly rub the meat with
salt and pile it on a table and allow it to stand for a few days, when it is
again re-rubbed and sprinkled with salt This must be continued until the meat is
cured through, and the only way to as
certain this is cutting and tasting. In ertain this is cutting and tasting. I
wet salting a brine is made and the mea
QUESTIONS AND AN plat
\(\qquad\)

Potato Growers Warned. A note of warning has been sounded from Ot-
tawa in regard to the very dangerous potato disease that has been brought to Canada in tubers mported from Europe during the present year. recently discovered in an imported shipment. To warn Canadian farmers against the danger planting imported seed, the Director of the ExperiFarmers' Circular No. 1," prepared by H. T. Gussow, the Dominion Botanist, which contains the following points
1. The only way in which the disease can be
introduced is through the planting of affected tubers. The use of diseased tubers for seed may, in
2. the worst cases, result in the complete destrus
of the entire crop. 3. When once introduced, the disease germ in-
3. fests the soil for a period of eight years, Which
means that for at least eight years no sound pomeans that for at east lagh thus infected. 4. None of the known remedies for other plant
diseases will prevent the appearance of the disease. The disease is spread readily through inested ments, old bags, or other means.
Attention is called to provisions under the De-
structive Insect and Pest Act, which show that, to structive Insect and Pest Act, which show that, to use or sell for seed potatoes imported from Europe
is illegal. Copies of this Farmer's Circular may is illegal. Copies of this Farmer the Publications Branch, Department of Agriculture, Ottawa, Ont
H. L. Hutt. Professor of Landscape Gardening at the Ontario Agricultural College, and R. B.
White, of Ottawa, ex-president of the Ontario HorWhite, of Ottawa, ex-president of the Ontario Hor a visit to Great Britain, where a special study wil and home improvement. In a land where such perfection in adornment has been attained by means of the growth and arrangement of plants flowers and grass, Prof. Hutt expects to return
fortified for future work with a wealth of suggestion and inspiration

The committee of the Dominion Sheep-breeders \({ }^{\circ}\) Association, consisting of A. P. Westervelt, Secre tary i Col. D. McCrae, Col. R. McEwen, R. H. Harding, and Branch, met in Ottawa on Friday last, completing arrangements, as announced in last week's "Farmer's Advocate," for the the sheep industry plans for the advancement of the sheep industry rams and grade ewes for disposal in the Maritime Provinces and British Columbia. Mr. Westervel
has received from the Federal authorities a \(\$ 15\), has received from the Federal authorities a \(\$ 15\),
000 check from the unexpended appropriation or 000 check from the unexpended appropraliminary
last year to finance the scheme. The preli visit to the outlying Provinces by members of the
committee will probably be made next month.
which will foat an egg. The meat mas
be left in this until it is cured through then it may be hung is cured through CONTRACT OF HIRING. If A hires to B for a year, in the
meantime B's housekeeper leaves, causing meantime 8 hosekeeper laaves, causing
inconveniences to to \(A\), thus trouble arises
between \(A\) and between \(A\) and \(B\), can \(A\) leave by giving
B one month's notice, and collect wages for time served? Ontario. A SUBSCRIBER.
Ans.-He is not legally entitled to

> CUTTING CORN.

When you are cutting corn with the
hoe, do you drop it in bunches, say,
three or four hills together, or do yeu three or four hills together, or do yo
let it fall as it will? A SUBSCRIBER. Ans.-It is much handier and nearly an
asy to place the corn in piles about the size of an ordinary she
LIGHTNING RODS FOR BARN.
We have two barns adjoining, \(L\) fash and both roofs are connected. Water pipes run down at one corner of each
barn. One runs into a well, ond the Other into a tile drain in the ground
about two feet. These barns are roofed
aith galvanized steel.
Do they need lightning rods?
Ans,-Barns roofed with galvanized steel, if properly grounded each cor
ner, are reasonably safe eq lightning
It would be better to put heavily - gal vanized wire, not less than 1 -inch in diameter, from each corner of the eavea
down into the ground until it reaches permanent moisture. Be sure to connect
the wires with the roof, and place them

Crop Conditions in Canada. A bulletin of the Census and Statistics Office The crops and live stock of Canada: reported as \(1,097,900\) acres, of which 797,200 acres were in Ontario and 300,700 acres in Al nd of April, it, is estimated that about 31.50 per cent. of this area has been winter-killed, the pro38.50 per cent. in Alberta. This represents Rotal decuction from the area sown of about 11.6.000 aces ( 229,00 acres in ontario, and of winter wheat on April 30th was 72.62 of a standard ( 71.24 per cent. in Ontario, and 76.80 per cent. in Alberta). From these figures, it is
calculated that the yield per acre from winter wheat in 1912 is likely to be about 20 bushels per acre, or 13 per cent. less than the average yield of the three years 1909-11, viz., 23-33 bush els per acre, provided that average conditions pre

In the Maritime Provinces, spring seeding on April 30th had only begun here and there, most progress had been mate hy the same date in Que bec, the amount of seeding done representing not
more than about 3 or 4 per cent. In Ontario, about 15 per cent. of the total seeding was com pleted, but this applies chientyce. In the North west Provinces, the wet condition of the ground coupled with cold weather and the small amoun seeding operations to be somewhat backward. Manitoba, 50.13 , in Saskatchewan 71.54 , and in Alberta 61.26 per cent. of the seeding of spring wheat was completed by the end of April, and Alber La 51 nitoba 36 Nearly 14 per cent. of the hay and clover mead
ows have been winter-killed, and their average condition is represented by 74.63 for all Canada, the figures for Quebec being 50 , for Ontario 82, for Alberta 95.60 , and for British Columbia 97.72 . The report on the condition of live stock shows per cent. of a standard. West of Ontario the figures exceed 90 for all descriptions of live stock In Ontario, for milch cows and Edward Island for milch cows and other cattle the percentage figures of condition fall below ARCHIBALD BLUE,


\begin{abstract}
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\section*{MARKETS}

Toponto. At West Toronto, on Monday, May 20
receipts of live stock numbered 186 cars comprising 3,476 cattle, 1,359 hogs, 61
sheep, 119 calves, 18 horses; quality o cattle good; trade firm, at steady prices.
Exporters, \(\$ 7.25\) to \(\$ 7.75\), and one load Exporters, \(\$ 7.25\) to \(\$ 7.75\), and one load
of steers \(\$ 8\); bulls, \(\$ 5.75\) to \(\$ 6.50\); choice of steers \(\$ 8\); bulls, \(\$ 5.75\) to \(\$ 6.50\); choice
steers, export weight, for butchers pur-
poses, \(\$ 7.10\) to \(\$ 7.35\); loads of good, \(\$ 6.75\) to \(\$ 7\); medium, \(\$ 6.40\) to \(\$ 6.70\)
common, \(\$ 6\) to \(\$ 6.30\); inferior, \(\$ 5.50\) to \(\$\) common, \(\$ 6.80\) cows, \(\$ 4.50\) to \(\$ 6.40\) milkers, \(\$ 40\) to \(\$ 70 ;\) calves, \(\$ 4\) to \(\$ 8.50\). Sheep-
Ewes, \(\$ 6.50\) to \(\$ 7.25 ;\) rams, \(\$ 4.50\) to
\(\$ 5.50 ;\) yearling lambs, \(\$ 8\) to \(\$ 8.75\) spring lambs, \(\$ 5.50\) to \(\$ 7\) each. Hogs,
fed and watered, \(\$ 8.85\), and \(\$ 8.50\) f. o. heview of last week's markets The total receipts of live stock at the
City and Union Stock-yards last week were as follows
\begin{tabular}{|c|c|c|c|}
\hline & City. & Union. & Tota \\
\hline Cars & 234 & 254 & 488 \\
\hline Cattle & 2,843 & 3,907 & 6,75 \\
\hline Hogs & 5,856 & 4,675 & 10,531 \\
\hline Sheep & 1,001 & 252 & 1,253 \\
\hline Calves & 1,532 & 65 & 1,597 \\
\hline Horses & 2 & 94 & \\
\hline
\end{tabular}

The total receipts of live stock at the
two markets for the corresponding week


JOINT SAVINGS ACCOUNTS

Interest-bearing Savings Accounts may be opened
at The Bank of Toronto in at The Bank of Toronto in
the name of two persons, draw money, and upon the death of either the balance

These are very convenient
household accounts.

\section*{Bank of Torontio}

Incorporated 1855
\(\qquad\)
T.gss.-The market holds very frrm, and It would appeart that egss will be very.
 more in smaler puantities. whit seconds
are about 5 S. (eess than straights Butter-Market a traction frmer





\(\qquad\)
\(\qquad\)
Buffalo.


Little
Trips Among th Eminent. hogartil and mis immedate pre[With acknowledgments to Allan Cun-
Con
. cycloppdia Britannica, etc.] If Holbein's was the first name of eminence among the names or tor pant
ers of Britain, it was also, for many years, the last. In those days, as has
been noted, the very livelihood of the been noted, the very lvellhood of the
artist depended greatly upon royal, and VIII. adad for the sake of his own glory.变miled upon and richly rewarded Holbein. his death mere painters were wholly forgoten, nor, indeed, when Flizabeth came
to the throne were conditions, so far na bettert They soon found, very much Virgin Queen", was far too penurious to encourage art in general, although, indeed, she was ready enough to have her own portrait painted from time to time,
nd
little wonder, if she believed the the stories these wily brush wielders were wont to tell her. The Queen, as history nas reorded, was very plain, and yet, notwithstanding the unwieldiness of the
loads of ornament and the huge ruff and lardingale with which she was accustomed to adorn herself for her portrait sittings; the painters invariably succeeded in representing her as quite more than va-
erably good looking. Even so, so vain was she that, as Raleigh tells us, upon one occasion she ordered all portraits of proclamation forbidding ill save e.espe cial cunning painters" to draw her like-
 ever, in the England of her time, al-
though, towards the close of her reign, Hilliard and the painter of miniatures, Oliver, began to achieve some distinc-
tion, these two being (since Holbein was not of British birth) lish-born men who have any claim to the During the reign of Charles I. the outTook was somewhnt bighter. Again was and again was the royal tavor bestowed upon men who could produce them.
Charles knew good work when he saw it. He made Inigo Jones his chief archi-
tect, and if he cliose for his commisions tect, and it he close for his commissions
in art the foreigners, Rubens and Van-
 Ind set a new standard for England. In ourt of Charles, Vandyke alone painted
 Scotchnum, was the only British artist Who appears to have devoted much time
to art: then the Civil War began, in ourse of which even those pictures that course of which even those pictures that
had been bought or painted at home wad been bought or painted at home
were \(\begin{aligned} & \text { greatly decimated. Hundreds of } \\ & \text { them, chiely } \\ & \text { religious, }\end{aligned}\) were burned by them, chiefy religious, were burned by
the Puritans, many others were sold abrond, and althoug cromwell when he
came into power nut an end to such amle into power put an eond on real
sales, the majority of the works of merit that still remained were destroyed
by the areat fire at whitehall Palace. Sir Peter Lely's is the next name that figures on the list of artists in Britain but, alt hough he spent some yenrs on
Chi. Island, he too was a foreigner. \({ }^{t}\) was who painted the tamous picture .the Protector "o "put the warts. Court of Charlos II met with ico - . . . .
ent Thornhill, and then from an unes-
pected quarter-as pear-arose the first teally great, wholly British artist, Hogarth sear Hogarth had, appeared before him ; none like him has appeared since. Artistg
had heretofore attempted to paint meraly had herectore attempted to paint merely
beautiful things.
Even in portraiture subject, and been chielly to flatter th many commissions. The eage was profigate, London was one of the most licen-
tious of cities, yet it had entered artist's head to fancy that he might, hy the representation of his brusb, do aught of Hogarth's bioyranhers of Hogarth's biographers bas baid,
'.Painters had been emploved hitherto in investing ladies of loose reputation with the lines of heaven, and repuration with
paramours into Ading thes paramours into Adonises." Then came
Hogarth-"one who dipped both in the lake of darkness ond held bethe in the to-
gether to the sorn and derision of mangether to the scorn and derision of man
kind. "A Alue eyed, honest, combative little a praiseworthy zeal he determined through his canvases, to call attention to the festering spots in the social, poli-
tical and church hile of his time, and by ridicule or mere force of the hideousnoss
depicted to rousc depicted, to arouse a revolution of feel-
ing against the conditions producing such ing against the conditions producing such
results. Some biographers have argued that a previous period of wild dissipation had
faviliarized Hogarth with many of the scires that he proceoded many of the purpose of finding out material for his work, he deliberately made himeelf Pami-
liar with such surroundings.
However liar with such surroundings. However
that may be, the ract remains that, at something over thirty years of age, ho

The pictures were placed on exhibition, and London stood ayhast. Not only were the subjects diferent and the workanytring that had appeared before, Hogath had had the audacity to paint ith utter faithfulness, as characters in his pictures, a number of well-known people about town. With the dissolute Kate Hackaway and Mother Needham aphigh or low, mattered not a whit Hogarth. So long as he was sure of his facts folk might wear the caps that fitted them. How had he managed the sit ings ?-that was the question, And
then it began to leak out that Hogarth's memory was almost phenomenally retentive, that he could carry not only feaures but little mannerisms about in his mind's eye for any length of time, help-
ing out as occasion offered by marvellous little sketches rapidly traced on his thumb-nail. All this was wonderful, but -and people shook their heads-for those who were powerful enough to work So it was. He was threatened, critics lashed him, but he had caught the fancy of the public, and over 1,200 subscribers hastened to put in orders for engravings
from the plates. With the proceeds from these and coummissions which quickly fold lowed he was enabled to move to a house at Leicester Fields, which he held until his death. Moreover, his father-in-law him, and a complete reconciliation toolc place.
In the meantime, Hogarth pursued the same ideals. He helped Thornhill to complete some allegorical pictures, was
able to take summer lodgings at Lamable to take summer lodgings at Lam-
beth Terrace (the house is gtill pointed
out, and a vine which, it is said, he


The Marriage Contract гgyaild From the series, "Murriage a la Mode," by Hogarth. The young lady has hean hsham

 the prints wero by some means prated
betore the
originalals
were shown, and






 Notwithetanding this amount of work
 prophet in his own country, The poople, paintings themeselves sold tor \({ }^{\text {and }}\) mere dealers seoing no merit in anything so \(t\) the old masters to France, where he began to asetern one of the gates of
Calais, was arrested as as apy and trans ported to England, he painteo one or the
most admired or
his picturses, ,The s. Inareh ot the Guards to Finchley," which the daticer, onowerer, paid no nottention to it,
 ent thim a handsome acknowledgment



\(t\)



boauty and grace, "The device ocea.
pioned much discussion and
inuuiry.
Ho
garth mas called upon to explain himpot!
and repied by a pamphete "The Analy-
his of Baaty, a prodaction which,
ihe mon
most part, served but to coll down

Finally he gave up portraitpainting
tutogater. He could not. he gaid, make
was expected to. He could not but bo
honest, and had the unhapy (aculty so so
it sozizing on the mind and spiritit tor his

The hast ineeg years of Hogarth's lito

wuge wilkes, whom he had caricaturad









Square, where the
He was buriced

Some years ago
at Chisisick was
Shipway of that

man, an ongrave
0 himm "hat Hogarth

Regarded In this ligh






The Roundabout Club
\begin{tabular}{|c|}
\hline \multirow[t]{14}{*}{\begin{tabular}{l}
To-day appears the last of the essays written during our winter s of 1911-12. Once more the work Literary Society closes for the busy mer, and once more we have the ple opportunity to thank the students have so well contributed to the su of the society, and to compliment on the excellence of their work. trust that all who took part in studies for 1911-12 will become members again when the especial wo the Literary Society begins for the sion of 1912-13. \\
This does not mean, however, that contributions to the club will be b during the summer. The Round
\end{tabular}} \\
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\section*{My Hero.}


1 would have my hero well-born. No
necessarily that the blood of kings colo his veins, but that his be the grande
ancestry of intellectual, honest, faithful) ancestry of intellectual, honest, faithful
God-fearing souls, whoso loving guidanc in youth would prove a daily blessing and their memory a constant incitemen
to the highest living. Good physique and good health, whil not essential to the greatest nobility, ar
powerful agencies in the battle of life. Lofty ideals are of supreme importance Myers says: A noble purpose is lite'
guarding, guiding angel.
Ideals are no creations of the brain or the desire; the are real. The imagination is the world' greatest explorer, and has been the for
runner of every Columbus. Shakespear Wordsworth and Tennyson simply dre aside the veil from realities. Ideal mark the difference between men and ma
chines; between the artist and the auto maton; between drudgery and inspira A man with a clear realization of his relation to his Creator and his fellow
men, and a firm resolve to live up to the knowledge, has made a long stride on the road to true greatness.
The intellectual faculties, trained by th
best our schools of learning can supply best our schools of learning can supply
including the wonderful realm of the art and sciences, literature and nature stud fortify him against the enemies of
rance, bigotry and narrowness. ance, bigotry and narrowness. Good judgment and decision of charac
ter are some of the essential' qualities in
the world's heroes. mon than one might suppose from th term. A wise inan is he who can take
an unbiased view of life's problems-great
and simall-and unfailingly pronounce and small-and unfailingly pronounce
rightly upon them. What a boon is this gift So many excellent qualities unr
strained by this faithful monitor woul miliation-to not speak of greater cal That "an honest man is the noblost it an occasional pessimist does feel like his grouch, pity his unfortunate exper ing is a pretty strong, workable and Musernary aree owe will admit that a Wencerrinis has a chane tow whet it


Loyalty, Honour, Manliness, Braver
re all terms which we instinctively ass are all terms which we instinctively ass
ciate with a hero; and, how common ciate with
the tendenc associate heroism wi the crowds, the blare of trumpets, and the crash of arms. The white light
publicity seems a fitting setting for th publicity seems a fitting setting for th
valorous deed-the act of thrilling brav
vary valorous deed-the act of thrilling brav-
ery. The rapturous shouts of the de-
lighted throng are a sweet even if tumul-
tuous-accompaniment to the heroic obli-tuous-accompaniment to the heroic obli-
gato; and, the life endangered, or oren
sacrificed by its own daring, is deemed
well spent, and almost compensated for,
by the glad acclaim and enthusiastic appreciation of the assembly. And, it quick to recognize and give due credit to sterling worth.
But, our gallant "Soldiers of the King' But, our gallant "Soldiers of the King
our crews of the life-saving stations, fire halls and railroads do not hold a monopoly on the world's courage. Proud
them as we are, we are also proud to hem as we are, we are also proud to do
honour to the, obscure hero. Thousands honour to the, obscure hero. Thousane
of the world's noblest souls have ilive
and died truly "unhonoured and unsung. and died truly "unhonoured and unsung, known but to a few, and possibly by
those few misunderstood and even ma-

\section*{- Thinkest thou there dwells no courage}

\section*{That set their mail against the ringin}

\section*{spears,
When helmets are struck down? Tho \\ little knowest
of Nature's marvels.}

Think you not the liter refined, sensitive woman to a husband of the very opposite nature, bearing with
nd screening from the children and siders his selfish indulgences, and denying herself ordinary comforts, shows a higher
type of courage than that of the mo type of courage than that of the mo
nent's impulse? Or, the man for whom Circumstances
hat great, inexorable alterer of plons that great, inexorable alterer of plans,-
changes matters so that for him the gal changes matters so that for him the goal
of his dreames seems an utter impossibil ity; yet he, rising resolutely above cir-
cumstances, proves himself heroic, although of a different type to that of hi early aspirations.
Then there is the heroism of patient
```

Will the strenuous toil of brain and

```
brawn,
'Mid the front rank's clamor and din,
'Mid the front rank's clamor and din,
Or, simply a cot. from the throng
apart,
And the moan of a sad shut-in,
\(\qquad\)
\(\qquad\)
\(\qquad\)
                            who knows, but it
```

Sympathy, Kindness, Cheerfulness a

```
Tact are a beautifulu quartettte of graces
fitted to make lovely even
itted to make lovely even an otherwise
inlovely character: but added to the
unlovely character: but added to the
qualities already named, should render
our hero almost irresistible: and if we
again add the faculty of Humor we con- \\ \section*{The Robin's Lesson \\ \section*{The Robin's Lesson \\ Roin's Lesson \\ t night 1 heard a rotin}

Hope's Quiet Hour
The Duty of Being Pleasant.

If any little word of mine
If any little word of mine
May make a life the brigh
If any little song of mine
May make song of mine the lighter-
May make help me speak the little
God help me speak the little wo
And take my bit of singing
And take my bit of singin
And drop it in some lonely
And drop it in some lonely
To set the echoes ringing.
The other day I received the following request from one of our readers: "Would
you please write, through your paper, on
The Duty "The Duty of Being Pleasant'?" It
strikes me that I have written strikes me that I have written pretty
often on that subject; however-as it is one that touches us all very constantlythis week. "A merry heart doeth good the a medicine, or "is a medicine," as
the revised version gives our text, there fore it is plainly our duty to be glad at
heart. Our Master went about doing good, He says Himself that He came into
the world to serve the world. . Th
Son of man came not to be ministereld unto, but to mimister, It is
our duty to walk in His steps, tion of the Light of the world, to do our best to copy the Good Physician in
bringing good cheer and healing wherever \(\square\) ho How can we help one people to be
healthy? How can we grow more healthy ourselves? The answer lies in our short text: "A merry heart doeth
good like a medicine." This is truly good like a medicine.
scientific, up-to-date statement, although written about 3,000 years ago. I have
lately been reading several books on the burning question of psychotherapy. That
long word means, I suppose, healing by the power of mind. I am not very learned myself, and my dictionary is too
old-fashioned to contain such old-fashioned to contain such a new
word, but the thing itself is as old as our human nature. In these books
which very learned men have lately writ ten, it is clearly pointed out that happiness is a very large element in curing
disease. One authority declares that some diseases may be only mental, but that none are so utterly physical as to
be unaffected by the state of mind of the patient. Gladness is a medicine, as our text says. It works in a mysterious way on the body, and is a far better cure-all than any patent medicine, for it
should be taken in all cases. In epidemics, such as cholera, it is a wellknown fact that fear is a most dangerous thing. The people who are afraid are
more liable to take the disease and less more liable to take the disease and less
likely to get over it. We know how fear can affect the body, even outwardy, making anyone cold and pale and weak.
Joy can send the blood throbbing through
\(\qquad\) every part, and giving extra power to
keep out disease germs or fight them
vigorously. Therefore it is our duty\(\square\)
body God has placed in our charge in as
good condition as possible.
But But a glad heart, resulting naturally
in a bright and pleasant manner, is a in a bright and pleasant manner, is a
wonderfal medicine for the cure of other
people
\(\qquad\)
\(\qquad\)
a person who constantly indulges in "the
hlues," it is very, very selfish to nurse
any hind of unhappiness. Sorrow must
or heart is the common lot, but it is
or hardly to "lie down under the cross"
conar hopeless, miserable fashion. We
in a hopeless, miserahle fashion. Which
are told to "take "ut" the cross which
ciod has called us it endure, following
Him "Who for the joy that was set be
fore Him endured the cross, despising
the shame."
It is easy to drift into the habit of
talking
in our lives, and then we are apt to
ket the many pleasant things-love
sicht, hearins, sweet air, beautiful
\(\qquad\)
\(\qquad\)
\(\qquad\)


OUR JUNIOR BEAVERS
\(\underset{\substack{\text { [For all pupils from } \\ \text { Junior Third, inclusive.] }}}{\text { First }}\) Boo Mother says I help her so,
I am five and strong, you know. Lots of things for me to do-
She needs me the long day througl Mother always understands
I'm her little Willing Hand
When I've finished with my play And I tidy up the yard And I run up the yand,
And
Caiuse my on mands ha 'Cause my mother says so sweet
'Thank you, little Willing Feet

\section*{-Youth's Companion.}

Junior Beavers' Letter Box
Dear Puck and Beavers,-This is my first
letter to the Beaver Circle. I have two letter to the Beaver Circle. I have two
brothers and no sisters. I have two
miles to go to school, and sometimes miles to go to school, and sometimes
when it is stormy I cannot go. I have
two brothers that two brothers that are older than I am,
I guess my letter is getting rather long. I guess my letter is getting rat
I hope it will escape the w.-p.
ing the Beavers every success.
Fordwich. MAIE LOVELL (age 8).
Dear Puck and Beavers, -This is my first letter to you. I have two horses named
Jim and Joe.
We have 40 cows and six horses, and one dog named Sport.
We have We have
Laughlin. It will hold four big people I have two brothers and two sisters; my
brothers are named George and Alexander my sisters are named Jennte and Kate.
My sisters are writing, too. I am in My sisters are writing, too. I am in
the office writing to you, so good-bye.
JAMES G. McQUARRIE
Armstrong, B. C.

Come again, James, and tell us about
the big mountaing out in your beautiful country, British Columbia.

Dear Puck and Beavers, - This is my first
letter to the Beaver Circle reading to the Beaver Circle. I enjoy
I
 near Armstron'
'The Farmer's \(A\) and are starting the second year. \({ }^{\text {I I I liver }}\)
on a farm.
JENNIE McQUARRIE Armstrong, B. C. \({ }^{\text {(Age } 9, ~ B o o k ~ I I .) . ~}\)

Dear Puck and Beavers,-This is my firs
etter to the Beaver Circle. We have taken "The Farmer's Advocate" for a
year. We have a dairy. I have three brothers and one sister. My oldest
brother is cleven, and my other is six, and the other two, and my sister is nine.
have gone to school for three years.
am in the am in the First Reader. \(\begin{gathered}\text { Good-bye all } \\ \text { KA'TIE McQUARRIE }\end{gathered}\)
\begin{tabular}{|c|c|c|c|}
\hline & \multicolumn{3}{|l|}{Dear Beavers, - 1 enjoy reading} \\
\hline & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{letters very much. I am a boy of seven
years old. We have taken "The Farm-}} \\
\hline & & & \\
\hline & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{er's Advocate" for twenty years. I go
to schuol avery day. I have two miles}} \\
\hline & & & \\
\hline & \multicolumn{3}{|l|}{and a half to go. 1 amave two the Part} \\
\hline & \multicolumn{3}{|l|}{Second mowk. My teacher's name is} \\
\hline & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{}} \\
\hline & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|}
\hline \multirow[t]{3}{*}{\begin{tabular}{l}
sou a little lettor \\
'The Farmer's \\
years, and lihes
\end{tabular}} \\
\hline \\
\hline \\
\hline
\end{tabular}

Rowan. We have a dog: his :ame Orangeville, Ont. (Age 9, Book … ii). Dear puck and Beavers,-This is my time
has taken "The Farmer's Advocate" for
about nine years, and I enjoy reading
your letters, so I thought I would write.

\[
\begin{aligned}
& \text { Dear Puck and Beavers, }- \text { As this is my } \\
& \text { first letter to the Circle I will not make } \\
& \text { it very tong. My father just started } \\
& \text { taking 'the Farmer's Advocate this year }
\end{aligned}
\]
\[
\begin{aligned}
& \text { taking "'the Farmer's Advocate this year } \\
& \text { and likes it fine. I hdve two little } \\
& \text { nieces and one little nephew. I go to }
\end{aligned}
\]
\[
\begin{aligned}
& \text { nieces and one little nephew. I go to } \\
& \text { nshool every day when it is not too } \\
& \text { schorm ever }
\end{aligned}
\]
\[
\begin{aligned}
& \text { school every day when it is not too } \\
& \text { stormy. My teacher's name is Miss } \\
& \text { Barkley, and I like her fine. I have a }
\end{aligned}
\]
\[
\begin{aligned}
& \text { Brkley, and I like her fine. I have a } \\
& \text { white cat with black spots. Hoping this } \\
& \text { will escape the w.p. b., I will close. } \\
& \text { IDA THOMPSON }
\end{aligned}
\]
\[
\begin{aligned}
& \text { Hoping th thill cose. } \\
& \text { I wHOMPSON } \\
& \text { THe }
\end{aligned}
\]
\[
\begin{aligned}
& \text { (Jr. II., age } 8 \text { years). } \\
& \text { St. Augustine, Ont. }
\end{aligned}
\]

Dear Puck, -1 must tell you about a little rabbit my youngest brother found
last summer. last summer. He was in the field, and
he noticed a little rabbit fall ofi the load
o wheat and he broul of wheat and he brought it home in his
and covered it over warm. In the
morning we got up and looked in the
box. The poor little thing wasn't there: a big rat had taken it.
I will end with a riddle.
What can you put up a stovepipe down,
What can you put up a stovepipe down,
that you can't put down a stovepiper up?
Ans. SADIE TRELFORD
(Age 9, Book Jr. III.)
\(\qquad\)
Dear Puck and Beavers, - I am a little
girl. I live on a farm with my a parents
and three brothers. I go to school every day, We have a lady teacher, her
name is Miss Nixon, and I Ilike her very
much. My father takes "The Farmer's Advocate," and I enjoy reading the let-
ters. East Flamboro (Age 8, ALVA Hood Hr. II.).
\(\qquad\) Dear Puck and Beavers,-This is the first
time I have written to the Beaver Circle.
My father has taken "'The Farmer's Advocate" since Christmas, and I like read-
ing the Beaver Circle very much. I have one pet dog; his name is Collie.
I have one pet horse; her name is Queen. 1 go to school every day. We have good
fun playing.
On our way to school we
pass through
The village of Galetta. There is a man who takes a load of us
up to Mohr's Corners. Sce have a mile and a half to go to
shool. The name of our school is
Mohr's Corners. I must close for this
time. time. Good-bye. (latrence dean
(Age 10, Class Sr. II.).
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)it. I hope this letter will be in prin
1.han Irak,-As this is my first letter Nowhere, pertiaps, do ill-mannure at
much better chance of acceptalance than
the less fortunate although perhaps
equally capable anplatan iually capable applicant. Occasionally,
indeed, a man may be possessed strength of character and originality such good breeding and still "pass," but as
a rule good than
\(\qquad\)
\(\qquad\) It is not sufficient to let him grobyhood.
rude little boor until he has to in the world, then a ttempt to to tra out
by a short and strenuous course putting a book of etiqueturse, or
hands.
True, this may acte into hing, hut it is almost accomplish som to do other than the rimht that it was
appears always and naturatl the
finely clothed he may be. A broadcloti suit, fine linen, silk hat and jewelry, silks and satins in ladies' apparel, by no
means cover up "'bad" manners lay even be an extra advertisement vulgarity if one does not know when and
how to wear them. Nothing can cucor how to wear them. Nothing can
up bad manners.
They are there, up bad manners. They are there,
to crop up sooner or later, ugly, alas ! too often anashamed.
Begin with the child, then, as soon as
he can be made to understand he can be made to understand. Teach
him that he must sit up straight at the him that he must sit up straight at the
table; that he must not stick out his elbows at the risk of jogging his neigh bors; that he must make no noise with
his mouth while eating or drinking; that he must always, always keep Do not let him open out his napkin
with a flourish and tuck it in at his nck Show him that all movements at the make him understand thāt, as soon as he
is able to do without a bib, he should be able to unfold his napkin hate whay and
slip it quietly across his kness. Sea that he never puts his knife into hee his
mouth; it was not made for that, but simply for cutting, fork and that, but
ing been invented for other purpTeach him to use the fork rer parperpess.
than
the spoon whenever possible; for example. in eating pie, sort cake, firm ice cream,
etc.; the reason tor this being that the
fork is capable of more dainty manipufork is capable of more dainty manipu-
lation. (How ridiculous to see a grown
man eating pie with a spoon!) And don't forget to warn him to hold his
knile as though they were hae or pitchfork. There is no need to grasp a fork with
the whole hand and prod it into of meat perpendicularly as some piece Main strength is not required for do. operation; the fingers are quite equal to the task. Adter a little practice the
child can be made to see that he can hold by the handles-which were made for the purpose-and that there is no neces-
sity of placing the fingers down on sity of placing the fingers down on the
steel and so looking awkward. If the child cannot handle the regular knives and
Morks easily on account of their size, he
should be given a child's should be given a child's set.
See that he never drags th
Sork from plate to tableclo the knife and
ing them down for a moment. When lay-
with something of a shock that a dainty
and otherwise pretty-mannered girl was
and otherwise pretty-mannered girl was
observed doing this. When at rest the
knife and fork should be laid side by side on the plate, slightly to one side if the
plate is to be passed in plate is to be passed, in order to make
room tor the replenishment of food Do not let the child blow his tea to cool it, nor pour it out in his saucer.
The saucer was made to catch the odd
drops drops falling from the cup, and so to
protect the tablecloth, yet who that has ever served at a table of threshers has
failed to notice the row Palled to notice the row of wet rings of
tea on the tablecloth, left by cups set out
to one side while the ten the saucers? Any man who cannot wait until his tea has cooled a bit in the cup
should have it served to him hall should have it served to him half cold.
Those rings not only soil the cloth, but they leave stains that are very hard to
\(\qquad\) broad, shallow, ciumsy saucer !
Teach the child that it is unmannerly
to lounce or to lounge, or to rest his elbows on the
trifle with knives, forks or giasses, no
crumble bits of bread on the cloth
When
When not eating his hands should rest
quietly on his knee. Make him understand that it is very
vulgar to look huncrily ahout to bolt his food or eat about the table,
vince him that Vince him that the true gentleman or
lady always eats very deliberately, never
evincing an undue or celing evncings an undue or "deliberately, neve
in the forgish" interest ment he must take small bites, and he two or more kinds of hood, so shovelling When eating from a a spoon he must su must he ever butter point, of it. No the contrary bread shoenld to eat it. On broken in the contrary bread should be broken in
small bits, as needed, and so conveyed
socure the last drop, as that plate to
criondiness, and brop, sure to convince him
that none hut the vulgar ever talk while
thand مond is in the mouth, or hold up

MAY 23,1912
tork should be hands dropped quietly to the knees. you do you must expect that the chil-
dren will commit the atrocious blunder of using them while at the table, or
elsewhere before people. Tooth-picks are elsewhere before
only to be used in the bedroom, or, at
least in privacy, when no one else is about.
Do not let the child leave his spoon in his cup atter stirring his tea. Mat
looks awkward, and may occasion upset-
ting of the tea. Nake him remove it at once and place it in the saucer.
Above all things, never, never lot him jab his knife into the butter, nor his
findividual fork and spoon into reneral individual Other folk have to eat from
dishes. Othes.
those dishes, and may not exactly relish the idea of partaking of leavings. Let "germs"-bacteria-in his mouth, that
these are communicated to the spoon andl be passed on to foods which other people And don't let the child reach for things.
Teach him that things at any distance from him must be passed around not O


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The Piano of Many Honors
WerEVER shown in
the great expositions of the world the

\section*{"DOMINION"}
instruments have amply held up their honor, and that of Canada, and dozens. o medals and diplomas attes to their superiority
For Purily and Permanence of Tone the "Dominion" is Unsurpassed
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methods
easy terms armethged direct from factory Get catalogue to-day.} \\
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\hline
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For toast or roast ) there is no ohere stove that is as For boil or broil Perfection Oil Cook-stove- the For fry or bake all the year round.

Every dealer has it. Handsomely finished in nickel, with cabinet op, drop shelves, towel racks, etc. Long chimneys, enameled tur-quoise-blue. Made with 1, 2 and 3 burners. Free Cook-Book with every stove. Cook-Book also given to anyone sailing cost

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"SALADA" means purity, healthfulness, satisfaction.
bLack, GREEN or mixen
\({ }^{055}\)


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"It is impossible to feed hogs profitably with grain or corn alone, as these feeding stuffs do not contain sufficient protein which is necessary in order to make up the proper feeding rations."

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"We estimate that every 100 Ibs. of Harab Dlgestive Tankage causes an extra Increase of 75 lbs . of Pork, which would not be obtained when using the other feeding stuffs alon
"We are in every way satisfied with the Digestive Tankage, and we
ghly recommend every farmer raising hogs to give this first-class food a highly recommend every farmer raising hogs to give this first-class food a
trial, and undoubtedly he will acknowledge its advantage." urs very truly Bow Park Farm, Brantford, Ont \(\qquad\)
If these people cannot feed hogs to best advantage without this food, neither can you, nor can you afford to be without it.

\section*{HARAB}

DIGESTIVE TANKAGE
THE PROTEIN IN HOG FOOD
Guaranteed Analysis: Protein, \(60 \%\); Fat, \(8 \%\); Fibre, \(6 \%\).
Write us for prices and particulars of this new hog food
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The Immigration Department of the Canadian Northern Railway have inaugurated special facilities for the benefit of Immigrants travel-, ling by the Royal Line of Steamers.
Organized parties in charge of experienced Conductors are ar ranged for the benefit of those who desire to travel in the care of

BOATS MET AT HALIFAX AND QUEBEC
The Representative of the Immigration Department, thoroughly familiar
with the customs and conditions of the Dominion. will meet the Royal Line of Steamers for the purpose of advising Immigrants and of conducting parties 8HIP'S MATRON
An Officer of this title has been appointed to each boat for the special benefit
of third-class passengers. The sole duty of the Ship's Matron is the care of of third-class passengers. The sole duty of the Ship's Matron is the care of
women travelling with children and young women travelling alone, also women travelling with children and youngite
young children. For further information write
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A LEADER IN TURN PLOWS
Superior to all others for simplicity and strength.

THE HILBORN COMPANY
Ayr, Ont.

Plows, Castings,
Barrows, Harrows,
Pulpers, etc
 Gentis Waxten?
 NONE ever came except one neighbor's they could hide a few dozen egge away family. With this exception we lived from the men. Whenever there was a
alone those four years we lived there. new baby the nurse (possibly one of the alone those four years we lived
You'd think we were black-balled. All neighbors' wives, who stayed about seven
the other 'residenters'" had always lived or ten days), when the man ot the houso the other "residenters" had always lived
there and did not require any new friends I was twelve, and with my two boy were asked anywhere. It was the funny it, and fancied there was something wrong, that some enemy must be at work
and these people must have heard someand these people must have heard some
thing against us. Mind you, the
preacher would call; the church collectors preacher would call, the church collectors
and agents, but there was no social life
whatever. It was dreadful. At last Whatever. It was dreadful. At last
mother got really ill; the doctor said the
monotony and worry about it all we monotony and worry about it all was
telling on her nerves and advocated a
change change.
to Rrantford, although he and mother
and the boys dearly loved to farm, but along came a buyer and we sold every-
thing.
Then we went West. That was two years ago. Mother said "It can't be
more lonely than it was more lonely than it was there if we are
miles from neighors." Well, we home-
steaded 160 acres, are preempting ànother 160, and bought a hall-section Afri-
can scrip. We all like it dandy. We are
not "black-balled" out there. We have
\(\qquad\) not "black-balted" out there. We have will go to make life pleasant, but after
ormed hosts of friends. The telephone the "knot is tied" the wife can climb
is in constant use. Although cold and
a long ,way to church, we are decidedly "in it," and all for this reason - the
people are sociable and don't hold back from a stranger.
My advice to you people back here in My advice to you people back here in
Ontario is to open up and be friendly.
You drove our family to the West and You drove our family to the West, and
no doubt have driven others. My heart
aches for the "new people", who are livare
ing on our farm now. I hear they are
being treated in the same cold way as "e were.
To crown all, just as we were packed evening such a scramble "we heard ont-
side, and there was a "surprise party"
come to come to us, they felt "so sorry" we were
leaving. So sorry they had not got more acquainted, and poor sick mother
smiling and taking it all in. If had
been in her place and dad's, I'd have made a speech and told them a few
things, similiar to this:
"Why did you not surprise us three or four years ago? not surprise us three or aloof and nearly killed us all by loneli-
ness? Never once you came near us
\(\qquad\)
\(\qquad\) I \({ }^{\text {am }}\) down here now attending my
ainnt's wedding, and she too will join the West. So, take warning, down in these
comfortable old farms. Wake up, and
visit the
\(\qquad\)
\(\qquad\) patience, show some to exercise a little
waiting act and do the
\(\qquad\)
\(\qquad\)
The Scrap Bag


\section*{B트름 CORN \\ Ontario Grown \\ We have a spleadid stock Below find prices ox wres We do not enll leses than oo
 \\  \\ Mangels \\  seded for
per Io
berowit \\ Champion Yellow Intermedier lb, post paid \\ Maommeot Latanan Rec
Golden Tankaral \\ GEO. KEITH \& SONS 124 KIng Street East,}

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GREAT DISPERSION SALE
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ALBERTA FEED is specially valuable
ALBERA AEED is specialy vare
The Chisholm Milling Company, Limited Toronto


MAY 23,1912
THE FARMER'S ADVOCATE She smiled, in the midst of all her
anxiety and through her gathering tears at thought of "the ruling passion strong
in death"; of Percy running into the wildest, maddest dangers, with the latest cut coat uporn his jabot unrufled sighed. "Quick, Sir Andrew ! !" sho " "Ah, yes, my friend"" said Sir An drew, addressing Brogard, with the same
assumption of carelessness, "'my assumption of carelessness, "my lord al
ways wears beautiful clothes; the Englishman you saw was certainly my lady 's.
say
"."
"He went
coming back
\({ }_{\text {Sir }}^{\text {per Andrew put h }}\)
gesture of warning upon Mith a quic, Marguerite'
arm ; it came none too soon next moment her wild, mad joy would
have betrayed her. He was well, was coming back here presently, she
would see him in a
haps. . Oh ! the wildness of her joy
seemed almost more than she coul "Here !" she said to Brogard, who
" Beaned suddenly to have been seemed suddenly to have been transforme (3)
 upon the fooor, to expreses his cortempt tor all and sundry aristsos, who chose to

 against all this tuss tor a mere English
man
 dointy whit hand
do his his the thouse

 that prety h hand which prinees had been
proud to kiss. At what time did he go "" ",
But Brogard had ovidenty had enough
 chised by these sacrres aristos, even though they were rich English ones. It
was distinctly more fitting to his born dignity to be as rude as possible was a sure sign of servility to meekly
reply to civil questions "I don't know," he said surlily. "I
have said enough, voyons, Ies aristos have said enough, voyons, les aristos !
He came to-day. He ordered sup-
par He went out -He'll come back. Voila !"' And with this parting assertion of his rights as a citizen and a free man, to
be as rude as he well pleased, Brogard
shuffled out of the room, banging the toornath him.

News of the Week.
O. Three Mieriot monoplanes have been
(i) in the Federal army

Tva ined ofice since March, 1905.

7mat nuthor of "The New Sorth"" died at
Mrairs at Moroceco are agsin beroming ante through the obietion ot the sulprotect orate.
Hatian naval and mintary authorities vice at ate distad in tene orpoducong the human 160 miles by wiro -s telephony.
1 Board of Trate Committees intud ding



\section*{BRANTFORD ROOFING}

\section*{Specified in the Contract}

Public Buildings-buldalmgs erected to endure - are loglcally covered With the best rooring procurable count of its almost Indestructible
qualitles, is very often specilited. qualltes, is very orten specilied in
the contract. The cut sho BRANTract. The cut show Armouries and Agricultural Hall of Forest, Ontario. Municipal archi
tects, all over the Dominion, specliy Brantrord Roofling alons with slate and 1 ron, thereby testifying to its fire-
reslistl resisting, element-defyling qualities
consideration when about to buy roofrates on bulailinss covered with
 for the marked superiority of BRANT. FORD ROOFING are very simple,
Its body or "Base" is lons-flibred Its body
pure wool.
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only mineral fluid that only mineral fuid that hat success2
fully defied the ravazes of the ele. ments for centuries. Fire cannot destroy BRANTFORD ROOFING.
Rine, Rains, sleet, or snow driven by
cyclonic storms cannot penetrate
it. FACTORY AND head OFFICES
Brantford Roofing Co., Ltd., Brantford, Canada Branch Warehouses: Montreal, 9 Place D'Youville. Winnipeg, 117 Market St. rctic weather bite into it even during not blister or draw it. It is the one durable roofling material. BRANTFORD (crystal) ROOFING never needs paint. It is vastly sulperior are convinced that it excele all metal roofing in the ratio of thre to one. And, yet BRANTFORD ROOFING costs but little more
than ordinary paper base roofinge N B. Write to day for our Bis N.B.-Write to-day for our Bl
Practical Roofing Book. It is free


A Bargain-Young Holstein Bulll Cy Canary Buttor Baron
 suddenly at Hamburg on May 15 th. His body was taken to Copenhagen, and will
be interred on May 24 th. The Queen be itcer Alexandra and the Dowager Em-
Mother prese Marie of Russia, are sisters of the
dead king.
Crown Prince Christian, who dead king Crown Prince christan, who
is forty-two years of age, succeeds his is forty-two years
tather to the throne.
A scheme described as "the biggest
A scheme described as
water - supply scheme ever proected ins
Conatel
Canade." has been set atoot by the Gov-
Con Peral pran to Germany, France, Russia, and Japan, to
discuss the terms of a loan to china have been suspended through lack of agree
hent to the terms demanded by Russia, ment to the terms demanded by Rusia,
viz.,
that her special interests in the North hhould bo beateguarded, and that poititical control of money advanced to
China should take precedence over bankChina should take precedence over bank-
ers' control.
Fiteen Model schools will be conducted y teen Department of Education this fall. he schools will be opened at Athens,
Chatham, Clinton, Cornwall, Durham, Uuelph, Kingston, Madoc, Morrisburg,
\(\qquad\)
G. T. P. to divert the Sounth Saskatche
an river to supply drinking water to Regina, Mroose Jaw, Weyburn, and othe
Rowns. It is estimated that the work
or
 adoc and Sault Ste Marie, where ape tal conditions have arisen are ndidition


2o the Deputy Minister of Education not of courses and regulations is practically the same as that of last year.
unexampled courage
He was the small son of a bishop, and
his mother was teaching him the mean ing of courage "Supposing," she said, "there were welve boys in one bedroom, and eloven
got into bed at once, while the other \(k_{\text {nelt down to say his prayers, that boy }}\) "oh ! !" said the young hopeful. now something that would be more were twelve bishops in one bedroom, and ne got into bed without saying his

\section*{candio.}

Doctor-"Do you talk in your sleep ?"
Patien-"No. 1 talk in other people"

\footnotetext{
Frederick vul King if Denmark, die
}

THE FARMER'S ADVOCATE.

| Another View of George. A man but 1ately married went out to
post a l leter, and as the lamps had not
boen nit tin the suburban road in which been lit in the suburban road in which
he dwelt ho could only dimy see his
hay
whart distance up the road he he
 been out to tee; and as he went past
fif just mhispered :
a All right, my dear ; I shall be with you in a minute,"
Immediately aiter wordo he saw the woman turn a horri-
fied lookk upon him and then hurry away; tead look upon him and then hurry awa
and the oon ocurred to him that it
was not his wife at all, and that in the was not his wite at all, and that in the
darkness he had made a mistake.
He decided to say nothing
and uquickly disappeared.
when
 wife awaiting him, and she at once


 George was just about to explain, when
an idea cane to nhiut
"What sort tof a man was it ?" he asked.
a
oh.
him quite plainly, and a more villainous
tace
a perfecter monsteler, in my my lite
Ho was
 \begin{tabular}{l}
\(\begin{array}{l}\text { Gororge decided it was best } \\
\text { nothing atter all--Boston Post. }\end{array}\) to say \\
\hline
\end{tabular}
The Woman Who Pleases. kinds and conditions of men,", was the the
recommendation tiven tor woman who makes hen living as umch brity
her ability to please as by her actual
her labors.
seeing that woman atterward and ob-
serving her closely, one could not tut
.



 to illumine conversation and to tiluhten
dull spirits, , ot to burr hearts nor scorch
sensitive telinct


\(\qquad\)
\(\qquad\)
evening.
it ins.
itrough
though
\(\qquad\)
\begin{tabular}{|c|}
\hline \multirow[t]{3}{*}{\(t\) never crept beyond the limits of} \\
\hline \\
\hline \\
\hline
\end{tabular}

 the woman's own words. The incident
is related as follows Thad made up my mind to visit the
great Goethe just once, and soo one day
when I rode throuch Weina whin Iode through Weimar I went th
his garden and gave the cardener one
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
'Firmly bound, the mould of clay,
\(I_{n}\) its dungeon walls doth stand.'
British Cattle Market.

\section*{Malied Corn Foed}

THE growing demand from wide-awake farmers fo Protein, has led this com pany to put another Dairy Feed on the market. We have had a careful analysis made of this feed, and had it tested by some of the leading dairies in and around Toronto with splendic
as follows
Protein. . 15 per cent. Fibre
Compare this with Prof Day's report on the feed value of coarse grains

Corn...7.I per cent
Oats.
Barley. . 9.
In Malted Corn Feed you get, therefore, Ioo per cent. 80 protein than in corn either oats, barley or wheat Do you see the point? Sev eral dairymen who have tried this feed report an increase in the flow of milk of from 5 to 8 per cent. Would any one want any better proof of the feeding value of Malted Corn Feed than this? It is better than whole pages of theory. Ask your dealer for a sample lot of this feed. If he canThe Farmer's Feed Co, toronto
io8 Don Esplanade FEED PRO - FAT

\section*{MALTED CORN FEED}

MILK FLOW INCREASE

Chicago.

Cheese Markets.



Save Friction, Save Wear, Save Fuel Bills Use

\section*{Capitol Cylinder Oil}

The very best oil for steam plants on the farm. Lasts longer and gets more power from the engine, with less wear, than any cheap substitutes; costs less in the end.

\section*{Atlantic Red Engine 0il}

A medium boiled oil, strongly recommended for slow and medium speed engines and ma chinery. Eases the bearings and lightens the load.

\section*{S. Peerless Oil}

Has no equal as a lubricant for farm machinery generally. Specially suitable for reapers, mow ers and threshers


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Ciii CUT down the cost of raising crops. That's the best and easiest way You can plow, harrow, seed, cultivate, harvest and haul at a a fraction of what it now costs you with horses. You can run the irrigating pump
silage cutter, saw, feed griuler, and other machines with 1t. You cult make extra profits easily by doing custom work för your neighbors after
you arime through with your own work. IH C Kerosene-Gasoline Tractors quickly pay for themselves. Their strength and durability make them
most serviceable for years of hardest work. Their simplicity makesthem most serviceable for years of hardest work. Their simplicity makesthem
easy to operate and easy to care for. Investigate tractor farming. Learn how you can profitably use an
I HC tractor. Get all the facts from the I HC local

GOSSIP
brampton Jerseys
Canada can now boast of the largest herd of pure-bred Jerseys owned under
the British flag, and B. H. Bull \& Son. who for many years have had the distinction of owning the largest and hest herd in Canada, are the proprietors. This firm have imported 117 head from the Isle of Jersey this spring. 90 of which were in call, and many of these have calved ere this. Further, there is now a permit issued for the importation
of some thirty more. The recent importation is stabled at Toronto fair grounds, where it will be until they can go to the farms at Brampton and be turned to grass. Many have inspected them the exhibition grounds, where Mr. Bull meets them by appointinent. The herd at Hawthorne Lodge, Bramp-
ton, has come through the winter in extra good condition, the scarcity and high price of feed having evidentity made
no difference here. Every one who has
visited the home never before looked so thrifty, strons \(Q_{\text {were }}^{\text {wid }}\)
 show-ring and make good yearrly records.
The sires which have been used
Brampts Brampton herd for many years have
foren their ability as men proven their ability as producers of but-
ter-test cows. Brampton Certest
the top of the list, and are are are at
lime to stay, according to present are thepearances. to ported a consignment of Clly \& \& Son imes ims
winter, some of which are still winter, some of which are still on hand.
We turther understand that the firin has
applied applied for a permit to import some
Berkshire swine. Berkghire swine
Many will tak rates on all railroads to Torone charing
the race meet and at 24 th of May
Foll

Dick's Standard Well Drilling Machine

\(T_{\substack{\text { the term } \\ \text { HEsually } \\ \text { the applied } \\ \text { stan } \\ \text { to } \\ \text { The }}}\) Standard when compared to other
makes, with their incessant rattle and clang makes, with their incessant rattle and clang.
They are compactly constructed and their mechanism is built of iron and steel-not "Boys"-This is a money maker. Drop a

The Dick Well Drilling Machine Co. BOLTON, ONT.. CANADA Quebec Agents: Bourntval \& Co., 333 Notre
Dame St. East, Montreal

THE SPICE OF LIFE, at a footbadil game. Michael-"Come away, wife, or else they The aviator's wite was taking her first "Wait a minute, George," she saic "T'm afraid we will have to go down What's wrong ?" asked the husband. believe I have dropped one of the
buttons off my jacket. I think call see it glistening on the ground."
"Keep, your seat, my dear," said the
aviator, "that's
breaking the f-cWhen Alice Jones was eighteen she be
ane Miss E. Alysse Jones. When she
 Yes," said the dean; "'and how are
youlling 'Jones' now? ?" Avertel the ducklings "Why is it," asked Rose Stahl, "that
in the spring a young woman's fancy is
so apt to turn to clucking hen year one of my best friends abandone the footlights and sought the actor's oft-
dreaned-of paradise, a little home in the country. "As a recreation she decided to start a poultry farm, which she did with a
barn-yard hen and thirteen eggs from the village store. Not having even the most clementary knowledge of poultry, she in-
quired of a neightor how long egga erally took to hatch. She received the
reply Three weeks for chickens and four for ducks.'
neighbor met her some time after-
and, on being asked y farming was going on, she replied, with a lowering countenance

Oh. I've finished with it. At the so I thok the hen off, as I didn't want
ducks."
"Wheel the Scale to what you want to Weigh"


The Renfrew insures the farmer his full profit on everything he sells by weight---from one ounce to 2,000 lbs.

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Write at once for our booklet, "Profit in the Last Ounce," which shows Mall how to get every cent of profit on produce you sell by weight using Coupon you how to get every ce TWO-WHEEL TRUCK SCALE. lease send THE RENFREW SCALE CO'Y RENFREW,

WESTERN AGENTS ONTARIO
 Renfrew, Ontario

QUESTIONS AND ANSWERS. Miscellaneous
THOROUGHBRED STALLION. Please inform me with whom I sho:ld
correspond in order to correspond in order to get in touch with
the Thoroughbred stallion owners of this district. I reside about the center of Grey County.
Ans.-Write the Accountant of the Na tional Live-stock Records, Departinent of
A RIGHT OF WAY.

If a footpath across a field has been be stopped
Figure up your annual coal bill, divide it by seven, and you have the amount the Hecla Furnace will save you every year. IT The steel-ribbed fire-pot does it. Adding steel ribs to the fire-pot increases its radiating surface three times more than is possible by any other method. The steel-ribbed fire-pot heats the air quicker. It sends the heat through the registers instead of up the chimney. I Examine the Hecla. Compare it with other Furnaces. II You will find every feature that makes for convenience and ease of operation. But the Hecla is the only one that has the Steel-ribbed Fire-pot-the fire-pot
Section of fire-pot showing ribs of stelplate which save Iton in 7 .

\section*{Saves monter in seven} which saves thousands of users one ton of coal in seven.

Ans-It depends upon the circumstances Orrinarily, if such a path has been ac
tually enioyed, as a way, by a person claiming right thereto, without interrup.
tion, tor the tull period of 20 yearu tion, for the full period of 20 years, it
cannot. leganly, be stopped without the
consent of such person. cannot. logaty, be sto
consent of such person.
\(\qquad\)
\(\qquad\) Itive in a place where I am obliged
to drive over a concession. It contains a hill which is so steep that a horse can
only draw a light rig up. This conces only draw a light rig up. This conces-
sion has been driven over tor a number
io of years, and no complaint has been
made about the hill. Could I refuse
drive over it, and compel the Council to drive over it, and compel the Council t
give me a road around it ?
Ontario. Ontario.
Ans.-We think not.
WART ON COW'S TEAT Have valuable Holstein heifer just fresh-
ened; had several warts on body, Bome very large, and one quite large, smooth one on side of one teat. Removed most
hody warts with castor oil, but one on
teat still grew. Neck of it is large, and


CLARE BROS. \& CO., LIMITED, Dept. L, Preston, Ont.
 wart is hard and rough on end. It is
troublesome to milk this teat, and mik
coupoc yory slowly folf will not suck it Please prescribe simplest and best way to
Plemove, without injuring teat, and still
remor keep cow milking.
Ans. - The best time to remove warts on teats is when the cow is dry. As the
castor (iil failed to remove it, touch it
daily with a pencil daily with a pencil of silver nitrate, or
butter of antimony carefully applied with
a feather in small guantity, always being careful not to overdo it, making a trou-
h, lesome sore. This treatment will make the teat rather sore and some trouble
may be experienced in milking. If at
all possible, wait until she is dry to

A WILL REQUISITE.
Mr Smith owns a 200 -acre farm with
atock and implements. The farm has stock and implements. The farm has a
\(\$ 2,000\) mortgage against it. Mr. S. has
\(\qquad\)
\(\qquad\)
\(\qquad\) would the farm, with stock and imple-
ments, have to be sold to make a satis-
\(\qquad\) Whe sons and daughters?
Whuld the Provinial official gu

If wo, would he demand the cash.
wiuld he leave their shares in the Whtil they came of age? Mr . S. to
Would it bo advisable for averything to his wife, then, with
Q2.000 lite-insurance policy that she she could release the mortgage
the farm to one or hoth of her Pirm, where she would have sufficient orme to educate them and make a home Ontario. READER.
\(\qquad\) Whe arranerments for it: also that th

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tice to those whom you wish to be taken cases where by legal technicality or the
absence of a Will, and the people who inherit property are almost the last ones
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which also includes a specimen will for your guidance. Fill it out accord be per-
simple instructions, and you may be
tectly gure that it will stand every legal test and cannot be broken under any circmastances. Why not get one druggists, and the Bax will Form

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneol
 What rules are there for auctioneering
in Ontario? How long does it take to
practice? What expense is there to practice? What expense is there to
start ? Do you think it is a good busi-
ness for a young man? ness for a young man? SUBSCRIBER.
Ontario.
Ans.-There is no gualification renuire Ans.-There is no qualification required
by law to become an auctioneer other
than payment of the license fee, the
anount of which varies in different
anominution


 adaptabinty of the man and the spirit
he puts into it. Good live-stock auc-
tioners are scarce, and make good wages
when hen work is plentl BARN
SMALL BAR 1. I wish to build a small barn to hold
two horses and two cows, and sufficient
tw hay and straw for their support, as well
as a few bushels of grain. I would want s a few bushels of grain. I would want
o drive in barn with wagon or carrige
nd unhitch under cover. Would a bar \(4 \times 20\) feet, with posts 16 feet high, and
at roof, be sufliciently large? I would ike to have a plan of the most econom
cal interior arrangements, also bill o
materials, as I imagine something I wan would be of general interest to you
readers.
2 . 1 would also like some informatio 2. I would also like some information
about water in this barn. 1 am just
building in the country, and my knowldge of country water systems and barns
s limited. The well is about 10 feet
then The cellar ceiling is 8 feet high. The
itchen ceiling is 8 feet, with bathroon
n floor directly above kitchen. This neans that water in well must be raised
bout 30 feet. Can this be done with a
and pump? Would it be necessary to
and ave a pump in barn also, in order
et water there, and could such a pum, .
he house?
3.1 am thinking of putting in cement
3. 1 in stalls for horses and cows. 1
lor would like your opinion in regard to ce
nent floors for horses to stand on. Do
ot the horses shoes tend to break oup
one cement and would not such a floon
on ess in the stall, and are continuall
Ci. H. B.
lawing and stamping?
Ans. - 1. The two horse stalls shoul and
ow stalls about \(3 \frac{1}{2}\) or 4 feet wide. It
would be well to have the stathe in on nd of the barn and the drive-shed in the
nother, with the grain-inin or box in
branary or feed-room in front of the catt
\(\qquad\)
\(\qquad\)
This Well-Drilling Machine

Earns \$10 to \$20 a Day for the Man Who Owns One Why not be the "well-driller" in your neighborhood. The drille pays for itself very quickly, then keeps on earning easy money for you. Drills either deep or shallow wells in any kind of soil o free proposition and ful particular.
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\(\qquad\)
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W. C. STERLING \& SON COMPANY Oidex Cedra Polt Fium in Buriness
MONROE. MICHICAN

> EUREKA
> KHEPS YOUR HAKNE SOFT AS A GLOVE TOUGH AS A WIRE BLACK AS A COAL Theņuen City Oill Co, LLmimidal.



936
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 For Sale \(\begin{gathered}\text { Vallev. Dale Shirent. Imported and } \\ \text { Canadian brod Stailo one, Mares and }\end{gathered}\) Fillies from 1 to 7

Wm. Pearson \& Son, West Flamboro

\section*{Shires and Shorthorns}



THE FARMER'S ADVOCATE
\begin{tabular}{|c|}
\hline \begin{tabular}{l}
Miscellaneous. \\
piles in pigs. \\
I have a pen of pigs that are troubled with the piles. I am feeding them shorts and whey. They appear to be doing well otherwise. What causes the piles? What is the best remedy, and what do
you consider the best feed for little you consider the best feed for little
pigs? pigs?
Ans.- Siles are uncommon in pigs. The trouble may be protrusion of the rectum, due to diarrhea. If so, wash the pro-
trusion with warm water, rub on a little laudanum, and press back into place. Eversion of the rectum is sometimes caused by the pig being constipated, which is often due in young pigs to too high
feeding or to lack of exercise. For this, give from one to two ounces of castor easily made bleed. They cause the an mals great annoyance. Feed on laxative
food, purge with castor oil or aloes and calomel, about 10 grains of aloes and 6
\(\qquad\) out the blood and apply an astringent, glycerine. Milk is the best feed for lit-
tle pigs. and chopped grain may be added. Shorts
\end{tabular} \\
\hline
\end{tabular}

\section*{SHEEP DIPS}
ed a poisonous dip as the only sure cur Ior lice on shep.
carbolic or arsenic dip. \(\begin{gathered}\text { Give formula for } \\ \text { FARMER }\end{gathered}\) Ans.-This query was referred to W .,
Ritch, one of the wembers of the Shee Ritch, one of the members of the Shee
Commission, who in replying, advise
Chat one of the reliabl dips advertise
from time to time in "The Farmer's sd
 "My advice regarding "homemade' to



\section*{Sheep dip at the farm. Even large an
experienced slicep farmers, who thoroughl} experterceat stepp armers, who thoroughy
understood dipping and tormerly made
practice of preparing their own dips, hav

appeared in "The Farmer's Avocate
adduitted to me that hic had lost sever


eral sherey farners in seothand inate


IMPORTED CLYDESDALES
I bave tor ale mares and fillies, trom toals up to 5 years or age, richly bred and big in
size to maner of the min foal matithed pairs, the kind to make you money. They will
be sold at prices that defy competition.
 Clydesdale Stallions with both size and
quality, all prizd John A. Boag \& Son, Bay View Farm, Queensville, Ont.
A Few Choice Clyde Fillies \({ }^{-1}\) anm offering several choice and particularly well.bred
sircs and dans. Also incestallion filles from foals of 1911 up to 3 years of age imp. HARRY SMITH; Hay P.o., Ont. Exeter Sta. L.-D.'Phone, BLAIRGOWRIE IS OFFERING AT PRESENT: OHN MILLER.


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EIGHTEENTH YEAR OF SELLING DIRECT TO THE USER



INTERNATIONALCARRIAGECO., Dept. "A," Brighton, Ontario.

THE FARMER'S ADVOCATE.


Miscellaneous.
 had five that have started with diarrhea,
then lose their arpetite, and sometimes
die, and if they don't die, might better, die, and if they dor
for they are no good. I have fed therm
chopped grain. three parts oats and one part corn, and all the milk they could
drink. Can you suggest a remedy? Ans,-Your feed, it fed in moderation
should be all right for pigs.
The ques tion does not state whether or not th
scouring started while the pigs were
the sow or afterwards. Some sows giv such rich milk that the young pigs' ten
der stomachs cannot dikest it. Suc
der


\(\qquad\) pigs. Irresular feeding may l, ing it on
Sudden changes of temperature are con ducive to it. For large pigs, feedin
dry erain or chop will usually ston? it while a milk diet is good for the younger
pigs. L, ance the corn and oats out of
the ration for a a few days until the trou-
\(\qquad\)
\(\qquad\)
\(\qquad\)

Mr. Robert W. Chambers has been telling ahout the poet who used to compos thought of a 4 ood word." Then the
wife would lifht a candle and write her husband's dictation for five or ten
minutes. Perhaps this performance might be repeated before morning. One nymt
the wife put an end to dictation. Her
husband, awaking her with the usual "Get up. I've thought of a good word,"
was startled to hear her reply: "oh. get
I've thought of a was star
up your
word."

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& \text { These 8, } 12 \text { or } 16 \mathrm{~h} . \mathrm{p} \text {. engines } \\
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& \begin{array}{l}
\text { cause intended for use under the } \\
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& \text { the farm. } \\
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\text { The engin } \\
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\text { our Canadian agents for our cata- }
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\text { our Canalian agents } \\
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\text { It sho mour the different styles }
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& \text { and explains their construction in } \\
& \text { Bates \& Edmonds } \\
& \text { Motor Company } \\
& \text { Lansing, Michigan } \\
& \text { General agents for Canada: } \\
& \text { Company, Limited } \\
& \text { Toronto, Ont. St. John, N. B. }
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 purpose dams, and sired by our coampion Scotch
Grey bull 72692 . Visitors find things as represented. John klder \& son, HENSALL, ontario CEDARDALE SHORTHORNSShorthorns of all ages, pure Sodtch
and cotct topped, imp.and Canatian-
bred chice heit. bred, choice heifers, choice young bulls
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Shorthorns \({ }_{\text {heifers }}^{- \text {Nine bulls and a }}\) for sale at very reat of Robert Nichol \& Sons, Hagersville Ont. Spruce Lodge Shorthorns and Leicesters Will price cheap young bull from 6 to 14 months ;
also \(\begin{aligned} & \text { and } \\ & \text { ayearoold beifers. some from imp. sires }\end{aligned}\) ande. Phone. W. A. Douslas. Tuscarera. Ont.
Jas. W. Glendinning, Veterfary Surzeon.


THE FARMER'S ADVOCATE.
QUESTIONS AND ANSWERS Miscellaneous.
clydesdale stallion. Please give breeding and color
Clydesdale horse, Fearl Oyster. chydesdale horse, Pearl Oyster. Ans.-As no number is given with the
name in question, we cannot be sure that We have the "Pearl Oyster"" referred to.
In Vol. XIX., of the Clydesdale studbook of Canada, there is recorded Pearl
osster (10770), n bay with white hind Oyster [10770], a bay, with white hind
feet, sired by Royal Duke (imp.) [7023]
(13603) 13693), and out of Maid of Charlesfield
imp.) (14231], by Ir rince Balmanna [2877] (9976). NING PEAS-ALFALFA SEED1. I would like to know, through the
columns of "'The Farmer', Advocate," columns of "The Farmer's Advocate,"
how many pounds of salt, how many pounds of sulphur, how many pounds of
lime, all mixed lime, all mixed together, would be enough
to sow to an acre of ground for potatoes?
2. I 2. Is there any way of treating the
seed potatoes by lime, sulphur, or salt, all together, or any one of these separate. before seed is planted, to stop the bugs? green peas. 4. I have some alfalfa to sow. Would
like to know how it with spring rye, about one peck of rye to the acre? How would it do to sow
it by itself as soon as the land can be made ready? When is the best time
sow alfalfa? early in the other grain, or early in the the spring with
without any nurse crop, or to summene
tol sow? The land is very light and sand 5. What would be a good thing to put
on a colt's navel as soon as foaled 6. Is it too late now to plant ber
ushes? When is the best tian or fall? SUBSCRIBER. salt, lime and sulphur on soil for pota twes. Better sow one of the commercial
fertilizers, or use a fair amount of barn-
yard manure 2. No. There is nothing that can b
done to potatos before planting to pre
vent bus. ed for scal, new rubber, and screw rubber or nough to exclude the ait. Place
 ndle, screw the tops on tight and
 Scotch Shorthorn Females for Sale \(\begin{gathered}\text { I amo offering at very reac } \\ \text { sonable }\end{gathered}\)


 A. B. \& T. W. DOUGLLSS. STRATHROY, ONTARIO SALEM SHORTHORNS \(\begin{gathered}\text { Headod by (Imp.) Gain ord Marouib, undeleted } \\ \text { in }\end{gathered}\) band two yeariingy and anding, and mumber of buth of
 Farm 14 mie from Buringlon Jet. Statiou. MITCHELL BROS., Burlington, Ont.

> Shire Stallions and Mares, Shorthorn Cattle (both sexes); also Hampshire Swine. Prices reasonable.
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EYLE BROS. IMPORTED BULL FOR SA/E GFO. D. FLETCHERER. .er sale Binkham. on

\footnotetext{
ASE MENTION THE ADVOCATE
}

OUESTIONS AND ANSWERS Miscellaneous.
breeding mare and care o 1. Should a young mare be bred on
the nimh day, wr three werks fromel he
ninth day, after fating? Which is the

\(\qquad\)
\(\qquad\)
\(\qquad\)
Better Feed, Cheaper Feed More Milk, Larger Profits

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D. Duncan, Don, Ont., Duncan Stn., C.N.R
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proces low considing auality. WILIAM THORM.
Trout Ruu Stock Farm, LYnedoch, Ont. Phone A lady instructed her little boy, invited have a second helping of cake he should you, I've had enough."" said she. "And asked if he'd have me didn t. Whe said, "No, I thank you
and don't you torget
II WEAK ACHIIIG BICK Caused Her Much Misory,

Mre. W. R. Hodge, Fielding, Sask., writes:- "'A few lines highly recommendlear I have been troubled very much ching back, which caused me much isery, for I could not work, and had no very badly out of order, and lept me rom sleeping at nights. I tried many
rinu sof pills and medicines, but it seemed Iroost in vain. I began to give up in lespair of ever, being well and strong Egain, when a kind neighbor advised me to try Doan's Kidney pils, whe am thankful for the relief I obtained from them, for now I am never troubled ith a sore back or sick headaches
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THE FARMER'S ADVOCATE

Hints"pe Keeping Help The following orthodox suggestions to
wards the solution of the haep problen ward the soution ot the help probenn
are offered by bi. A. Macconell, Divector of Colonization, Pariiament Bulidings Toronto. While perhaps containing little that is new, they are sound enough, and
will bear repotition: "Realizing that one of the most urgent needs of the tarruers of our Provinco : Colonization Branch nas been endeavor. ing to meet that demand by bringing
men from Great Britain and Ireland and placing them with farmers in this Province. During the past few years severa
thousand have becn brought out an placed in this way. Instead, however, increasing. Our observation and experi-
ence convince us that while there may be many explanations of this regrettable
fact, the one outstanding reason is the practice of employing men for six or eight months of the year, and then turn-
ing them out to find situati
nor for the balance of their time. This
works out in such a way that the men Work
who have been employed on the farms now seem to gravitate to towns and
cities in the winter months and remain there, with the result that the farmer is spring in his efforts to secure help. "Having regard to these facts, I beg
to make the following suggestions, the adoption of which we are satisfied, would
go a long way towards relieving the time: employ a man by the year. We have found that the farmer who employs his
help by the year, especially if he is abl to supply a house and a small piece of trouble over the help problem. It is the
better the farmer. If you feel your work does not warrant the employment of a man
the year round, you might be well ad vised to consider the question of taking
up a few more branches of farm work ar a few more branches of farm work
or handling additional live stock, and in this way we feel satisfied ypu would more
than make up the extra cost of the help. \begin{tabular}{|cc} 
" (2) Do not be too exacting about \\
yetting an experienced man. Fxperienced
\end{tabular} arm laborers are rare at the present
ime, as there is a large demond them in the old Country as well as on man, recognizing that he is unfamiliar
with the conditions and methods in this country, and devote a little attention to training him for a few months, you will
find in nine cases out of ten, that he
will prove very useful to youl. Being will prove very useful to youl. Being
reasonably generous in the matter of
reatment and wages is essential it hired treatment and wages is essential if hired
help is to he retained."

\section*{GOSSIP}

Aont Mcliwen, Alloway Lodge Farm,

Wiwd from, having in view the produc-
Minhout ion sexu"

cellected a rixh1 euod somne bull, in Mar-


TRADE TOPIC.


Every IH C Wagon is Inspected Four Times
\(\mathrm{H}^{\text {ow do you buy a wagon? Do you wait till you need one and }}\) then take the first taits then take the first that s offered you, or do you find out in
advance which wagon will give you best service, and buy that
Why not get as much as you can for your money? Buy the One? Why not get as much as you can for your money? Buy the
wagon that will stand up for the longest time and be easiest on your wagon that will stand up for the longest time and be easiest on your
horses. That wagon is an IH C wagon. Here is why: Each IHC

\section*{Petrolia \\ Chatham}
have just one standard-the highest. The lumber used is selected from large purchases. Every stick of this lumber is carefully inspected.
Another inspection is made when the parts are ready for assemblng. This inspection assures perfect shaping and ironing.
The third inspection, when the wagon is ready for the paint shop, overs all the points of superio construction for which 1 H C wagons pitch and gather of the wheels are verified. When this inspection is
finished, the wagon is up to standard everywhere, good enough to be stamped with the I H C C trademark. Four inspections to make sure that you get everything you pay for.
All these inspections are for your benefit, so that any farmer who
owns one can say with truth, "My I H C wason is perfectly satisowns one can say with trath, "My IHC wagon is perfectly satis-
factory." The IH C local agent will show you the wagon best suited to your needs. He will supply you with literature, or, we will send it
if you write. Address-

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Hamilton, Ont. & \(\begin{array}{l}\text { London, Ont, } \\
\text { Quebec, P. Q. }\end{array}\) & \(\begin{array}{l}\text { Montreal, P. } \\
\text { St. John, N. } \\
\text { Ottawa, O. }\end{array}\) \\
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tor, Burnside Ayrshires \(\begin{aligned} & \text { Champions in the show ring } \\ & \text { and dairy tests. Animals all }\end{aligned}\) R. R. NESS, Howick, Quebec \(\begin{aligned} & \text { ages and both sexes for sale. } \\ & \text { Long-distance 'Dhone in house }\end{aligned}\)



\(\qquad\)
G. BRYSON, Secretary-Treasurer NEIL SANGST
ck, Ouebec.

QUESTIONS AND ANSWERS Miscellaneous.
perennial sow thistle Can you give me the best plan of
ing perennial sow thistle. 1 have
feld that has about a dozen or field vards wach. I have heard shingline win Lar papler recommended for killing sm kill sow thistle, and if so. how lou would it need to be kept on. I would
like, too, if you would let me *now with farm weeds. Ans.-The best plan is persistent, thoror hoe crop. preferably summer-fallow, eason if necessary by rape, sown rills and cultivated. One season of tle. but it must be very much more
thorough than the average man gives, or would suppose necessary. Smothering
noun Cine nly in the case of a few small patches.
ihe best book on farm weeds is called
Farm Weeds of Canada," and may be purchased for \(\$ 1\) per copy, from the office the Superintendent of Stationery,
Government Printing Bureau, Ottawa. dislocation of patella. Have a young mare four years old; had
colt three weeks ago all right. Last cint she had her stifle put out, caused loor. I got it put in again, and treat-
her with liniment that the an left. Now I have given her a little one mornings she bas difficulty in he goes all right for a that was stile, and then he springhalt. It looks as though the She can run all right and kick up her hat
heels, but does not walk right pob Ans.-Your veterinarian doubtless did are likely right in assuming that the ctifle stips partially out and back again.
Chere is a probability that the animal hay never be all right again, but she
hould make a rather useful animal. Clip the hair od the front and inside of the parts. and rub thoroughly once daily the
and lrams each of biniodide of mercury and
antharides, mixed with on one ine. On the third day wash off and until the scale comes onf. Repeat the
heaves.
I must say that 1 alu very much
pleased with your farm magazine, which
have received since the first of the
ypar, and think that every farmer should
have it in his home. I am going to
have youn a
sk you a few questions, which I trust ?sk you a few questions, which I trust Hould you advise breeding a mare with
hin hoaves? Would it likely run in her
Wher Whyping? Are there any cures for
Whaves? What would you perescribe?
What generally brings on heaves, and at what age are horses likely to he disposed leaves when well established can-

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averaging pounds. W. H. Simmons, New Durham P.O., Oxford Co
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of the breed in this country. For stock of this kind, H. BOLLERT, Tavistock. R. R No. 5. Ont. Holstein Bulls for sale-Springbank Choicely bred Holstein bulls for sale at reasonable ons. Luvpras Springs P. P. O., Ont. Fergus
tation, C. P. Rand G. T. R.
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GIENORO STOCK FARM, Rodney. Ont. Jxford Down Sheep, shorthorn ciat-



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Write, or come and see my young bulls and
beifors.
They are going at farmers' prices. ROBT. MCEWEN, Byron, Ont.
"No, my son," replied Mr. Menpeck,
gazing sady at his wife: . . nut I do

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\section*{Suffers Untold Agony} After Every Meal.
Nearly everything that enters a weak, Syppeptic stomach acts as an irritant;
hence the difficulty of effecting a cure. the distressing symptoms of dyspepsia and in a short time effect a cure. Mrs. F. C. Gross, Berlin, Ont., writes: for the last seven years and tried all kinds of medicine for it, but none of them ever eured me, for as soon as 1 would quit would come back. Last fall I was adVised to try Burdock Blood Bitters, which Idid, and used four bottles, and now feel nicely and can eat almost anything with out it affecting me in any way.
"Our boy ts also using it; he always
complained of pain in his stomach and all over, like rheumatism, and at the age
ald ond of ten had to stay home from school. He hasn't quite used two bottles yet and and eats heartily."
and eats heartily."
B.B.B. is manuactured only by The
L. Milburn Co., Limited, Toronto, Ont

QUESTIONS AND ANSWER Miscellaneous.

BEES SWARMING.
1s it better to let bees swarm once
then cut away queen cells, or would it
he be as well or bees, and get better re
turns, to not let them swarm at all, by keeping queen cells cut away? How can
bees be wintered in a colony house like A. H. B.
Ans. -1 it is better to prevent all swarm-
ing by some artificial method cludes more than simply keeping queer
cells cells cut away.
I have described a good method several we give printed instructions to anyone
that writes to me, making application that writes to me, making application
for an experiment in the prevention of
natural cwarming in BABCOCK VS. OIL TEST.

\(\qquad\)




TREE - PLANTING AND HORSE 1. I am going to plant a number of
vine balsam, and also a row of maple trees in my yard. When should they be
planted. and how treated after planting? What time of year would you advise to
transplant an ook about 3 inches in
diameter or can son fully?
2. Yearling colt has a small wart on top of nose. What would remove same?
3. How much wheat would you recom-
niend per day for Clydesdale mares prevmend per day for clydesdale mares prev-
ious to foaling? Would sulphur or salt-
petre be injurious to them? if not 4. Driving mare four years old had
distemper last fall; got better, but has kept thin and dry in the hair since
Have been feeding her a cup of wheat in
a gallon of oats three times winter, along with hay, but has not
cleaned off much yet. What would be 5. When is the right time to sow flax
and how much should be sown per acre (arleton Co. Faing ther.
Ans.-1. Plant the trees as early in handled like the rest, only lee careful in
 ,


\section*{LIVINGSTON'S OIL CAKE MEAL}

\author{
Is the most wholly nutritious stock food you can buy. Made of the purest Lin-eed--by the celebrated Old Patent Process (which makes it keep three or four years, if necessary)-pro
both practical and scientific, to be \(95 \%\) digestible \\ oth practical and scientific, to be \(95 \%\) digestible.
Even if LIVINGSTON'S OIL CAKE MEAL costs twice as much as the other foods which do not keep and cannot be half digested. would pay every farmer and dairyman to get LIVINGSTON'S OI CAKE MEAL. The cost is only a trifle highe \\ end-quickly increasing and improving the milk and healthily FATTENING CATTLE. \\ THE DOMINION LINSEED CO., LIMITED \\ Baden, Manupaciurers Ontario
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the coming season, or any other breed. Breeders wishing to get a
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eligible. PETER ARKELL \& SONS, TEESWATER, ONT

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 Suffolk Down Sheep also lambs. Aberdeen-Angus Cattle best in tyanda.

O. I. C. Whe offer for sale the Chester Hilton Stock Farm Holstelns an ister No. 6404 ; sired by Silver Jack regdam White Beauty 3073 L. Longtallo weighs between 350 and 400 lbs ., was fa akin to too many of our breeding sows GLIN 45 for quick sale. DAVID SMITH, Mgr. st. Catharines, ont.

Present offering: 6 yearling heiters
and several founger onee. All very
choice. Ot famworths, pigs of all
 Bighton Tel. \& Stn.
SUNYSIIDE CHESTER WHITE MOGS Weys. W. E. WRIGHT, Glanworth P.O.,Ont.
Pine Grove Yorkshires \(\begin{gathered}\text { Bred drom prizewinning stock } \\ \text { of thgrand and } \\ \text { a chancice lot of young pigs ove }\end{gathered}\)
Joseph Featherston \& Son, Streetsville, Ont.
FAIRVIEW BERKSHIRESISWINE OF ALL BREEDS FOR SALE


\begin{tabular}{|c|c|}
\hline \multicolumn{2}{|l|}{\begin{tabular}{l}
Hampshire Pigs \(\qquad\) \\
J. H. RUTHERFORD, Box 62, Caledon East, Ont.
\end{tabular}} \\
\hline \multirow[t]{5}{*}{\begin{tabular}{l}
Newcastle Tamworths and Clydesdales \\
Present offering: 15 boars, foom 2 mos. to 1 year. Sows same age, some bred, others ready to broed. All by imp. boar, dam by Colwill's Choice, Canada 's champion boar, 1 yoll 2, 3 and 5 . Also one or two
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